

## eXGD1160F40 (indoor)

### Features

The Model eXGD1160F40 series covers superb high transient surge protection and AC power noise filtering at the main service panel for many applications which computing process sensitive high tech equipments. It will be guarded from damage, errors and downtime resulting from high speed transients and noise interruption. The eXGD1160F40 series model achieve to protect extraordinarily high transient exposed AC power distribution line and Tracking noise filter circuit performs to clamp undesired pick noise exposed on AC sine wave. Models offer full mode protection and quick repair and replacement. The connection terminal for input and output consist of serial connection type.

#### ◆ Surge Protection Module.

- Main & Branch & Local Service Panel Protection for 1 phase.
- Max surge protection capacity IP=160kA/Phase (8/20 $\mu$ s).
- High Performance surge Fuse: Ip=200kA Max (Dual Fusing).
- All mode protection: L-N, L-G, N-G.
- Fast clamp response: less than One nano-seconds.
- Bipolar/Bidirectional protection to prevent additional damage.
- Absorbability Surge Energy: 8200J
- Aggregate Energy Absorption: 122J/cm<sup>3</sup>
- LED alarm lamp for TVSS, Filter

#### ◆ AC Power Tracking Noise LC Filter Module.

- 1 phase EMI / RFI AC power tracking filter.
- Excellent Filtering for Normal Mode and Common Mode Noise.
- Good reliability and high performance.
- Outstanding noise absorption, particularly for high voltage impulse.
- Low Leakage.

#### ◆ N-G Protection Module.

- Max surge protection capacity IP=40kA/Phase (8/20 $\mu$ s).
- Front panel LED's for status indication and abnormal voltage detection (N-G).
- Powerful performance MOV: Using 40mm large size MOV.

### Technical Specification

#### ◆ Enclosure for eXGD1160F40

- Enclosure: NEMA 1, 16 gauge steel.
- Dimensions: 253mm (W) x 320mm(H) x 143mm(D)
- Protection stage: MOV - LC filter - MOV
- Bypass Switch: Circuit Breaker for TVSS (Option).
- Connection: AC Serial Screw Terminal type.(Input/Output).

#### ◆ Surge Protector Module.

- Operating Voltage rate: Maximum Allowable 125% Rated Line Voltage, 145% Rated Line Voltage (Option).
- Response Time: < 1 Nanoseconds.
- Modes of Protection: L-N, L-G, N-G.
- Surge Current/Phase (8/20 $\mu$ s): 160kA/1 Event.
- Surge Life/Phase (8/20 $\mu$ s): 6kA/10,000 Event.
- Protection Present / reduced: Green: Normal Operation.
- Operating Altitude: 13,000 ft. (4000m).
- Abnormal Voltage Detection: Red LED Lamp: Between Neutral-Ground.
- Temp.(Operating): -40°C to + 70°C.
- Temp.(Storage): -40°C to + 85°C.
- Noise Filter: EMI/RFI Filter included (UL1283).
- Safety & performance: UL 1449 2nd Edition Spec. Meets.
- Surge Event Counter included (Option).- LCD display (6 digit)

#### ◆ AC Power Tracking Noise LC Filter Module.

- Maximum filter peak current: 40A.
- Rated voltage: Maximum 250V.
- Test voltage: 1,500Vrms between line and earth for 1 minute.
- Isolation Resistance: 500Vdc 300Mohm between line and earth.
- Leakage Current: 1 Max mA.
- Temperature Rise: 40 Max °C.
- Operating Temperature: -25°C ~+85°C.

### Model Specification

The eXGD3160F40 Series of surge protectors meet or exceed ANSI/IEEE C62.41-1991 and UL1449, 2nd Ed.

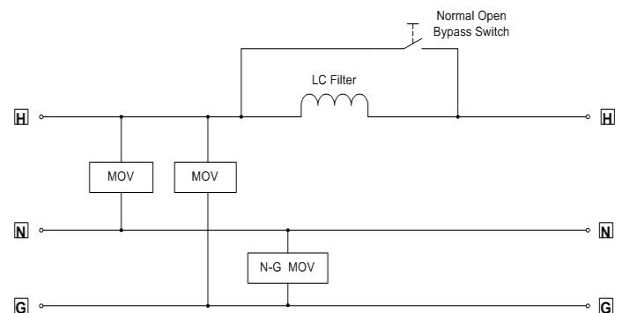
Model	Rated Voltage	Description	Suppression Voltage (8/20 $\mu$ s) 3kA
eXGD1160F40-120S	120 VAC	1P, 2W+Gnd	650 V
eXGD1160F40-220S	220 VAC	3P, 4W+Gnd,Wye	1000 V
eXGD1160F40-240S	240 VAC	1P, 2W+Gnd	1200 V

\* High-leg Delta Center Tapped

#### ◆ Product photography



#### ◆ Block Diagram



#### ◆ Installation Diagrams

##### 1 Phase, 2W+Gnd, Serial Type

