



EQX 40, 80, 160



GENERAL SPECIFICATIONS

Peak Surge Current: 40, 80, 160 kA per phase
ANSI/IEEE C62.41 Location Categories: A, B and C
Application: AC power service entrances, branch panels and/or individual equipment
Warranty: Ten-Year Free Replacement
Unit Listings: UL1449 SECOND EDITION, cUL, UL1283 filter, CE
Manufacturer Qualifications: ISO 9001:1994 Quality System Certification BSI FM 30833

MECHANICAL SPECIFICATIONS

Enclosure: Powder Coated Steel, NEMA Type 1 (IP20)
Mounting: Threaded conduit fitting and/or multi-point mounting feet
Connection: #10 (6 mm²) stranded wire
Weight: ≈ 5 lbs (2.2 kg)
Operating Temperature: -40° F (-40° C) to +140° F (+60° C)

ELECTRICAL/PERFORMANCE SPECIFICATIONS

Protection Modes: Full Mode: L-N (normal mode), L-G, N-G (common mode)
Input Power Frequency: 47-420 Hz (50-60 Hz for ATN® models)
Response Time: < 1 nanosecond
Capacitance: Up to 30 nf with EQX, up to 1.5 µf with EQXN
Diagnostics: Green LED indicators, Dry Relay (Volt-Free) contacts (contact rating 60 W or 125 VA, 125 VAC and 0.5 Amp or 30 VDC and 1 Amp)
Short Circuit Current Rating: 200 kAIC using 30 Amp Class RK5 Fuse

Maximum EMI/RFI Attenuation – Mil-Std-220

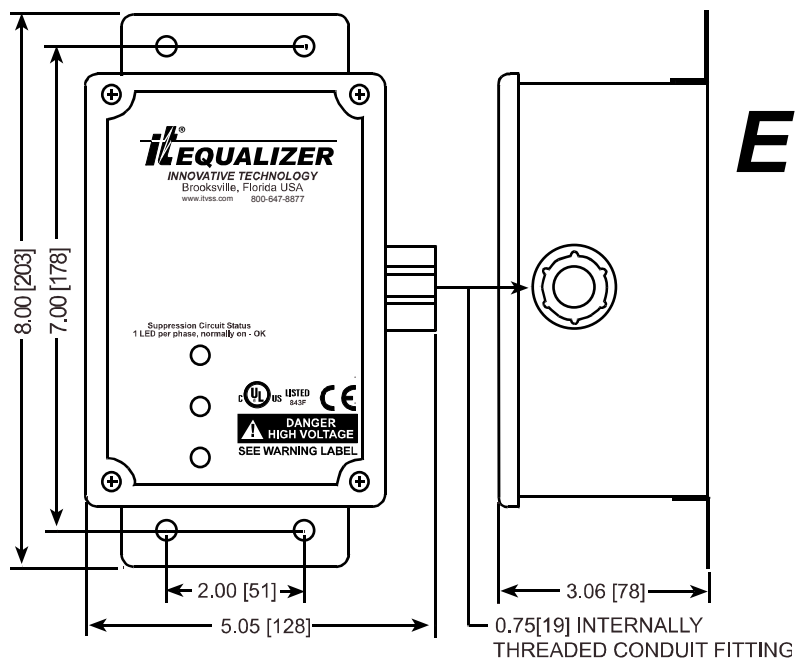
| 1 kHz | 10 kHz | 100 kHz | 1 MHz | 10 MHz | Maximum Attenuation Frequency |
|-------|--------|---------|-------|--------|-------------------------------|
| 0 dB | 8.5 dB | 30 dB | 23 dB | 6.8 dB | 58 dB @ 238 kHz |

OPTIONS AVAILABLE

Active Tracking Network (ATN®): EQXxxN
Flush Mount Plate (ZPLATE-4)



EQX 40, 80, 160



| EQX40 EQX80 EQX160 | System Config | Nominal System Voltage | MCOV | ANSI/IEEE C62.41-1991 Measured Limiting Voltage* | | | | | | | | UL SVR | |
|--------------------------|------------------------------|--------------------------------------|---------|--|---------------------|---|---------------------|--|---------------------|---|----------------------|---|---------------------|
| | | | | A1 Ring Wave 2 kV, 67 A 180° Phs Angle | | A1 Ring Wave 2 kV, 67 A 90° Phs Angle | | All Models B3/C1 Impulse 6 kV, 3 kA 90° Phs Angle | | All Models C3 Impulse 20 kV, 10 kA 90° Phs Angle | | UL 1449-2 Suppressed Voltage Ratings | |
| | | | | L-N L-G HiL-N | L-L N-G HiL-G | L-N L-G HiL-N | L-L N-G HiL-G | L-N L-G HiL-N | L-L N-G HiL-G | L-N L-G HiL-N | L-L N-G HiL-G | L-N L-G HiL-N | L-L N-G HiL-G |
| 1P101 | 1 φ 2w+grnd | 100, 110, 120, 127 | 150 | 330 340 | — 380 | 370 390 | — 330 | 490 540 | — 510 | 840 970 | — 900 | 400 400 | — 400 |
| 1P201 | Single φ 2w+grnd | 200, 208, 220, 230, 240, 277 | 320 | 670 670 | — 720 | 760 740 | — 720 | 930 960 | — 910 | 1340 1400 | — 1290 | 800 800 | — 800 |
| 1S101 | Split φ 3w+grnd | 100/200, 110/220 120/240, 127/254 | 150/300 | 330 340 | 620 380 | 370 390 | 680 330 | 490 540 | 940 510 | 840 970 | 1300 900 | 400 400 | 800 400 |
| 3D101 | 3 φ Δ (Hi-Leg) 4w+grnd | 120/240 | 150/300 | 330 670 670 | 620 720 670 | 370 740 760 | 680 720 740 | 490 960 930 | 940 910 960 | 840 1400 1340 | 1300 1290 1400 | 400 400 800 | 1800 400 800 |
| 3Y101 | 3 φ Y/Star 4w+grnd | 100/175, 110/190 120/208, 127/220 | 150/300 | 330 340 | 620 380 | 370 390 | 680 330 | 490 540 | 940 510 | 840 970 | 1300 900 | 400 400 | 800 400 |
| 3Y201 | 3 φ Y/Star 4w+grnd | 220/380, 230/400 240/415, 277/480 | 320/640 | 670 670 | 1130 720 | 760 740 | 1380 720 | 930 960 | 1700 910 | 1340 1400 | 2150 1290 | 800 800 | 1500 800 |
| NN201 | 3 φ Δ 3w+grnd | 200, 208, 220, 230, 240 | 320 | — 740 | 740 — | 740 — | — — | 980 — | 960 — | — 1620 | 1550 — | — 800 | 800 — |
| EQX80 EQX160 | | | | | | | | | | | | | |
| NN400 | 3 φ Δ 3w+grnd | 380, 400, 415 440, 480 | 550 | — 1200 | 1260 — | — 1200 | 1260 — | — 1580 | 1620 — | — 2190 | 2250 — | — 1500 | 1500 — |
| NN501 | 3 φ Δ 3w+grnd | 525, 600 | 750 | — 1580 | 1590 — | — 1580 | 1590 — | — 2040 | 2020 — | — 2720 | 2660 — | — 2000 | 2000 — |
| EQX80N EQX160N | | | | | | | | | | | | | |
| 1S101 | Split φ 3w+grnd | 100/200, 110/220 120/240, 127/254 | 150/300 | 60 300 | 110 320 | 220 380 | 390 320 | 540 540 | 930 490 | 1010 1160 | 1350 990 | 400 400 | 800 400 |
| 3D101 | 3 φ Δ (Hi-Leg) 4w+grnd | 120/240 | 150/300 | 60 460 60 | 110 120 460 | 220 750 430 | 390 580 750 | 540 940 940 | 930 900 940 | 1010 1310 1290 | 1350 1350 1310 | 400 400 800 | 1500 400 800 |
| 3Y101 | 3 φ Y/Star 4w+grnd | 100/175, 110/190 120/208, 127/220 | 150/300 | 60 300 | 110 320 | 220 380 | 390 320 | 540 540 | 930 490 | 1010 1160 | 1350 990 | 400 400 | 800 400 |
| 3Y201 | 3 φ Y/Star 4w+grnd | 220/380, 230/400 240/415, 277/480 | 320/640 | 60 460 | 120 580 | 430 750 | 550 580 | 940 940 | 1710 900 | 1290 1310 | 2140 1350 | 800 800 | 1500 800 |
| NN201 | 3 φ Δ 3w+grnd | 200, 208, 220, 230, 240 | 320 | — 580 | 110 — | — 650 | 430 — | — 930 | 960 — | — 1490 | 1540 — | — 800 | 800 — |
| NN400** | 3 φ Δ 3w+grnd | 380, 400, 415 440, 480 | 550 | — 960 | 130 — | — 1170 | 760 — | — 1630 | 1670 — | — 2410 | 2390 — | — 1500 | 1500 — |

*Test environment: All tests performed with 6" lead length, positive polarity. Voltages are peak ±10%. Measurements are taken from zero reference per NEMA LS-1.

**EQX80N only.



(EQXdim.wmf, EQX-Spec.p65 06/20/03 ZM02-354)