

PQ PROTECTION SURGE PROTECTION DEVICES

PQC PLUS SERIES



PRODUCT SPECIFICATIONS

Safety Testing/Listings & Standards	UL 1449 5th edition, NEC Article 285 & NEC 2020 Article 242 ANSI/IEEE C62.41.1-2002, C62.41.2-2002 & C62.45-2002
Location Ratings	UL 1449 Type 1 (line side) and Type 2 (load side) and IEEE Category C3 and B3
Surge Current Rating	160kA per phase/80kA per mode @ 8/20µs
UL Nominal Discharge Current Rating (In)	20kA (highest UL rating available)
UL Short Circuit Current Rating (SCCR)	200kA (highest UL rating available)
Repetitive Surge Current Rating	UL 1449 5th edition duty cycle life/repetitive impulse tested, and 3rd party independent testing
LPS Master Labeling	Complies with UL 96A requirements
Protection Modes	L-G, L-N, N-G & L-L
Product Technology/Design	UL tested thermal disconnecting bidirectional MOV design
Indicator Lights	LED protection status indication per phase
Field Legible Labeling	Reversible label for variable installation methods
Audible Alarm	Standard feature indicating loss of protection, power or phase
Connection Method	Pre-wired, 18", 12AWG conductors supplied for parallel connection, 20Amp Breaker Recommended
Advanced Monitoring Contacts	Supplied with Form C Contacts, 1-N/O & 1-N/C, 240V, 2A pre-wired #22AWG conductors for remote monitoring
Response Time	< .5 nanoseconds
Dimensions/Weight	3.25"H x 3.25"W x 2.8"D/2lbs.
Operating Frequency	0-700Hz
Operating Environment	0-95% non-condensing humidity/-35°C to +85°C
Installation Location	Indoor or Outdoor
Enclosure Type/Rating	Polycarbonate NEMA 4X, UL 50E Type 4
Mounting Method	3/4" nipple mounted
UL File	VZCA.E335441
Warranty	Ten (10) Year, Limited Replacement Warranty

The **PQC PLUS SERIES** is a high-performance transient voltage surge protection device (SPD). Designed for use in all AC power applications – *critical and emergency for industrial, commercial, institutional, healthcare, and residential applications.*

The **PQC PLUS SERIES** effectively protects your equipment from damaging power surges coming from lightning, utility power generation/distribution systems, as well as inductive switching equipment within your own facility.

Designed as the most compact and powerful surge protector available today. The **PQC PLUS SERIES** allows for easy installation, either surface mounted or recessed, in those space limited areas without giving up any protection performance.

The **PQC PLUS SERIES** indicates the operational status per phase via LED's, as well as an audible alarm indicating a loss of protection has occurred. For facilities utilizing a building automation/monitoring system, the **PQC PLUS SERIES** comes equipped with pre-wired remote monitoring SPD contacts for a no hassle connection to your BAS/BMS.

The **PQC PLUS SERIES** is fully automatic in operation, fully resetting itself after automatically activating itself to protect the connected equipment. No operator intervention is required and it's 100% maintenance free.

The **PQC PLUS SERIES** is UL 1449, 5th Edition listed for Type 1, line or load side installation. Incorporating thermal disconnects with a 200kA (SCCR) for fault current. Installation with or without a breaker is acceptable, however connecting to a 20Amp breaker does ease powering down should the SPD need replacement in the future.



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ENGINEERS SPECIFICATION

Provide and install at location(s) indicated a UL 1449, 5th Edition, 20kA In, Type 1, 200kA SCCR listed **Model PQ Protection PQC Plus Series** Surge Protection Device (SPD). Minimum surge withstand rating of 160kA per phase/80kA per mode. SPD shall incorporate status indicator lights per phase, an audible alarm indicating protection loss, and pre-wired Form C, 240V, 2A advanced monitoring contacts for remote monitoring in a NEMA 4X, UL Type 4/50E rated enclosure.

PQC Plus Series	UL 1449 Performance Data					
Models	System Voltage	L-N	L-G	N-G	L-L	MCOV
PQC160-120V	120V Single Phase	700	700	600	-	180
PQC160-240V	240V Single Phase	1200	1000	1000	-	350
PQC160-120/240V-SP	120/240V Split Phase	700	700	600	1200	180
PQC160-120/208-3Y	120/208V 3 Phase, Wye	600	700	500	1000	150
PQC160-277/480-3Y*	277/480V 3 Phase, Wye	1200	1000	1000	2000	350
PQC160-240V-D	240V 3 Phase, Delta	-	900	-	1500	275
PQC160-480V-D	480V 3 Phase, Delta	-	1500	-	3000	550
PQC-FP	Flush Mounting Option					

*Suitable for use on a 120/240V 3 Phase, hi-leg delta

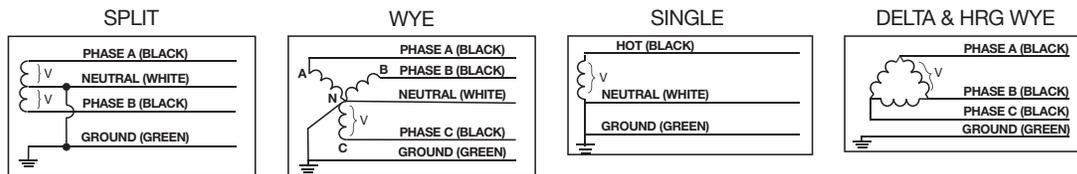
WHY DO YOU NEED SURGE PROTECTION?

CAUSE: The statistical nature of lightning and the broad spectrum of energy delivered via a lightning flash, the problems created by various generation/distribution systems or the inductive switching loads within one's own facility may result in damaging voltages and surge currents. These events are a threat to all sensitive critical equipment loads.

EFFECT: With the global technology advancements that are essential in all state-of-the-art equipment, processes and operations, the critical equipment sensitivity to power fluctuations has dramatically increased creating the undeniable need to protect against power surges.

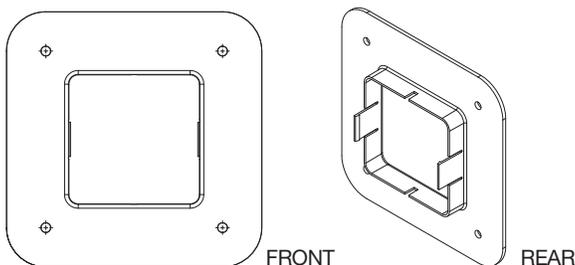
SOLUTION: The PQC PLUS Series is a high-performance surge protection device, designed to protect connected equipment and devices by preventing excess electrical current and voltages from reaching them by diverting that excess current away from the active line and directing it to ground.

VOLTAGE CONFIGURATIONS/WIRING DIAGRAMS



FLUSH PLATE DIAGRAM

Outside Dimensions: 6.5" X 6.5"
Cool Grey Polycarbonate Material



PRE-WIRED ADVANCED MONITORING STATUS CONTACTS

Ready for quick connection to your BAS/BMS system

