

# PQ PROTECTION SURGE PROTECTION DEVICES PQM200 SERIES - MODULAR



PQM200 series are high-performance, robust, surge protective devices (SPDs) with advanced features, protecting your facilities' electrical equipment from damaging electrical power surges due to lightning, utility power generation/distribution systems, and inductive load switching equipment within your facility. Intended for service entrances, distribution panels, MCCs, branch panels, lighting panels, and large equipment applications (e.g., HVAC).

The PQM200 is automatic in operation, resetting after activation to provide continuous protection of electrical equipment.

The PQM200 series is UL Type 1 listed (automatically suitable for UL Type 2) and can be installed before or after the service equipment overcurrent device, with or without a dedicated circuit breaker for the SPD.

Ultra2X – Temporary Overvoltage protection – increases durability & service life.

The **PQS200** version adds a Surge counter (and filtering capacitors) listed as UL Type 2.

Replaceable modules and cartridge fuses.

Optional Advanced Monitoring Contacts (AMC) – pre-wired Form C monitoring contacts.

Optional side & top (of electrical panel) mounting kits.

**ISO 9001:2014** Quality Management System, **ISO 17025:2007** Laboratory Certification (**UL® DAP**), and 100% Quality Tested prior to shipping.



PRODUCT SPECIFICATIONS	
<b>Status Indication</b>	Individual LED per Phase / Line / Protection Mode Alarm LED Audible Alarm Surge Counter – PQS200
<b>Certifications</b>	<b>UL® 1449 Edition 5</b> PQM200 – Type 1 / Type 2 PQS200 – Type 2
<b>Complies With</b>	<b>NEC® Article 242 (Article 285 - prior to 2020)</b> <b>UL® 96A Edition 14</b> Installation Requirements for Lightning Protection Systems <b>ANSI/IEEE® C62.41.1-2002</b> Category A, B, and C; <b>C62.41.2-2002</b> ; and <b>C62.45-2002</b>
<b>Short Circuit Current Rating (SCCR)</b>	200 kA
<b>Maximum Discharge Current (I<sub>max</sub>)</b>	200 kA per phase / 100 kA per mode - 8/20 μs
<b>Nominal Discharge Current (I<sub>n</sub>)</b>	20 kA
<b>Frequency</b>	50 Hz, 60 Hz
<b>Operating Temperature</b>	32° to 104°F (0 to 40°C)
<b>Mounting</b>	Surface mount Optional Side Mount kit, Flush Mount Kit
<b>Enclosure Rating</b>	NEMA® Type 4/12, suitable for indoor or outdoor installation
<b>Enclosure Material</b>	Metal (powder coated aluminum)
<b>Dimensions</b>	9.45 H x 5.12 W x 3.07 D in., 4.4 lb
<b>Connection Method</b>	Parallel, 10 AWG stranded, ~36" length, 3/4" conduit nipple
<b>Recommended Circuit Breaker</b>	30A (20A minimum), multi-pole as required
<b>Remote Monitoring - Contacts</b>	Form C, 0.3 A @ 125 Vac / 1.0A 30 Vdc, IoT, BMS, and SCADA compatible Optional AMC – pre-terminated leads
<b>Warranty</b>	Ten (10) Years

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MODELS   PQM200		MCOV		VPR		
Model Number	Configuration	(V)	L-G (V)	L-N (V)	N-G (V)	L-L (V)
PQM200 120/208V-3Y	120/208V, 3-phase Wye, 4W+G	170/280	700	600	600	1000
PQM200 277/480V-3Y	277/480V, 3-phase Wye, 4W+G	320/550	1200	1000	1200	1800
PQM200 240D	240V, 3-phase Delta, 3W+G	276	-	-	-	1800
PQM200 480D	480V, 3-phase Delta, 3W+G	550	-	-	-	2600
PQM200 120/240V-SP	120/240V, Split-phase, 3W+G	170/280	600	600	600	1000

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PQS200 120/240V-SP	120/240V, Split-phase, 3W+G	170/280	600	600	600	1000

## Side Mount Kit PQSM

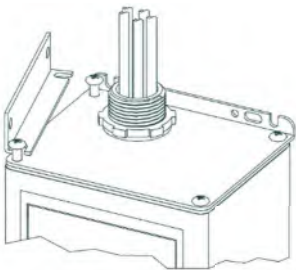


Figure 1 (PQM100 shown as example)

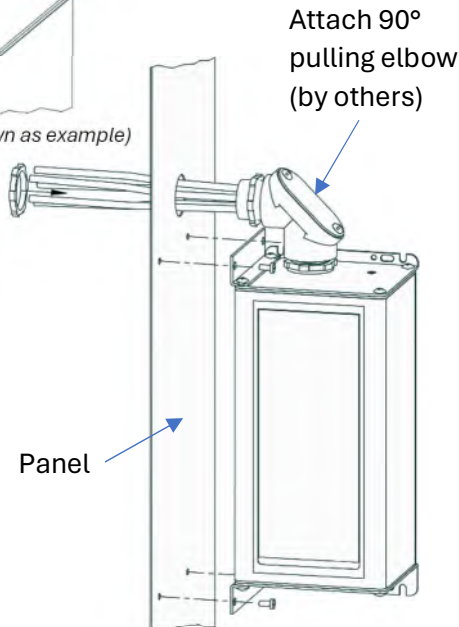
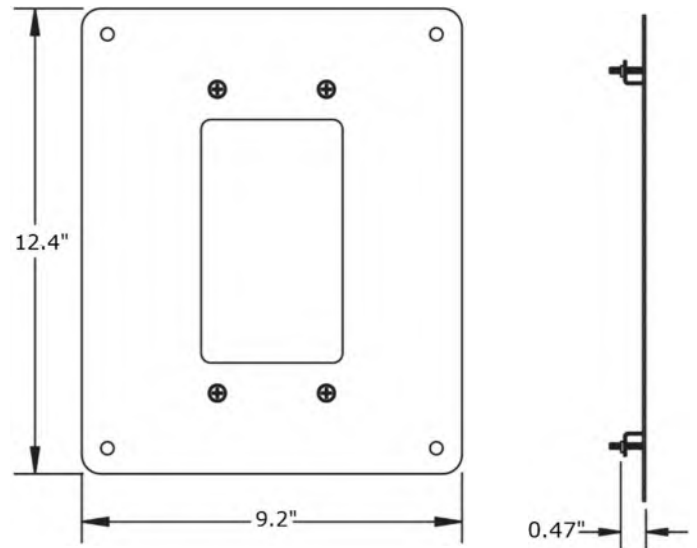


Figure 2 (PQM100 shown as example)

## SPARES

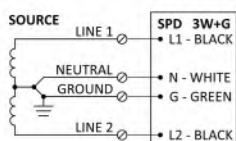
Replacement Module	PQM200-MOD
Replacement Fuse	PQFUSE

## Flush Mount Kit PQM200F

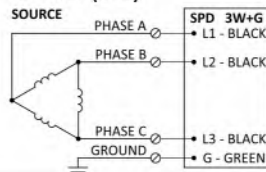


## CONFIGURATIONS (Conceptual - refer to IOM for installation instructions)

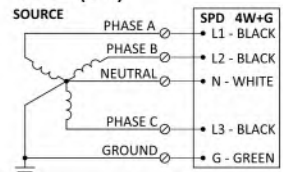
### SPLIT PHASE (SP)



### DELTA (3D)



### WYE (3Y)



Document issued 2025-02-25