PQ PROTECTION SURGE PROTECTION DEVICES

PQD SERIES - MODULAR



PQD 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 protecting individual external building circuits e.g., exterior lights, signage, receptacle outlets, charging facilities, HVAC units.

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

The PQD series is UL Type 2 listed.

Ultra2X Technology addresses abnormal over-voltage conditions, improving durability & service life. Many competing SPDs permanently disconnect all protection during a sustained over-voltage event, resulting in SPD failure and requiring replacement.

Ultra2X technology allows the SPD to tolerate an abnormal over-voltage condition up to twice the SPD's nominal operating voltage while remaining operational during and after this event.

Ultra2X technology is recommended for sites where sustained over-voltages are known to occur and where failure of traditional SPD technologies cannot be tolerated.

The PQD can protect multiple circuits in one enclosure and ships completely assembled. Circuit identification labels included with each unit.

NEMA 4/12 indoor/outdoor weatherproof powder coated metal enclosure with viewing window to inspect module status without opening enclosure.



PQDS



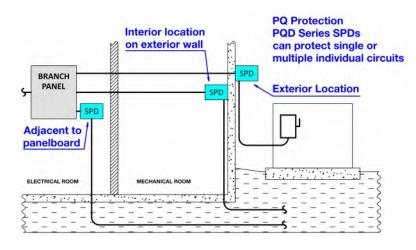
PRODUCT SPECIFICATIONS					
Status Indication	Visible mechanical flag per mode				
Certifications	UL® 1449 Edition 4 Type 2				
Complies With	NEC® Article 242 (Article 285 - prior to 2020)				
	UL® 96A Edition 14 Installation Requirements for Lightning Protection Systems				
	ANSI®/IEEE® C62.41.1-2002 Category A, B, and C; C62.41.2-2002; and C62.45-2002				
Short Circuit Current Rating (SCCR)	200 kA				
Maximum Discharge Current (I _{max})	50 kA per phase / 50 kA per mode - 8/20 μs				
Nominal Discharge Current (In)	20 kA				
Frequency	50 Hz, 60 Hz				
Operating Temperature	-31° to 185°F (-35 to 85°C)				
Mounting	Surface mount				
Enclosure Rating	NEMA® Type 4/12, suitable for indoor or outdoor installation				
Enclosure Material	Metal (powder coated aluminum)				
Dimensions - PQDS	5.91 H x 7.87 W x 4.72 D in.				
Dimensions - PQDM	7.87 H x 15.75 W x 5.91 D in.				
Connection Method	Parallel, 8 AWG solid, 10 AWG stranded				
Recommended Circuit Breaker	Determined by circuit load, multi-pole as required				
	Maximum 125A OCPD if supply is greater than 100A				
Remote Monitoring - Contacts	Form C, 3 A @ 125 Vac / 0.5A 250 Vac, 14 AWG, IoT, BMS, and SCADA compatible				
Warranty	Five (5) Years				

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Voltage Configuration(s)	Circuit	AWG	Quantity of Circuits	
	Configuration		PQDS	PQDM
120-1P 277-1P	1P	12	up to 6	up to 12
	1P	10	up to 4	up to 12
	1P	8	1 or 2	up to 9
	1P	6	1 or 2	up to 9
120/240-SP 208-2P 480-2P	SP or 2P	12	up to 3	up to 6
	SP or 2P	10	1 or 2	up to 6
	SP or 2P	8	1	up to 5
	SP or 2P	6	1	up to 5
240-3D 480-3D	3D	12	1	up to 4
	3D	10	1	up to 4
	3D	8	1	up to 3
	3D	6	1	up to 3
120/208-3Y 277/480-3Y	3Y	12	1	up to 3
	3Y	10	1	up to 3
	3Y	8	1	1 or 2
	3Y	6	1	1 or 2



Addresses the requirements of:

FBC 449.3.15.6 (Hospitals)

FBC 450.3.27.5 (Nursing Homes)

"All low-voltage system main or branch circuits entering or exiting the structure shall have surge suppressors installed for each pair of conductors and shall have visual indication for protector failure to the maximum extent feasible."

Can be mounted horizontally or vertically

Contact PQ Protection for assistance with configuration model numbers, and spare/replacement module model numbers.



PQDM



	MCOV		VPR	
Configuration	(V)	L-G (V)	L-N (V)	N-G (V)
120-1P	170		1000	
277-1P	320		1200	
120/240-SP	170/340		1000	1000
208-2P	275		1200	1200
480-2P	610		2400	
120/208-3Y	170/295		1000	1000
277/480-3Y	320/536		1600	1600
240-3D	320/536	1600		
480-3D	610/1055	2400		