## PQ PROTECTION SURGE PROTECTION DEVICES PQ480 SERIES





PQ480 is a high-performance, robust surge protective device (SPD) with advanced features, protecting your facility's electrical equipment from damaging electrical power surges due to lightning; utility power generation/distribution systems; and inductive load switching equipment within your facility. PQ480 is intended for Service Entrance and large equipment applications, incorporating integral rotary disconnect switch.

The PQ480 standard 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.

The PQ480-F with EMI Filter option is UL Type 2 listed and can be installed after the service equipment overcurrent device. The PQ480-F series protects your facility equipment from internally generated transients such as oscillatory ring waveforms which are typically due to switch-mode power supplies (most modern electronic equipment).

The PQ480 is automatic in operation, resetting after activation to provide continuous protection of electrical equipment.

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

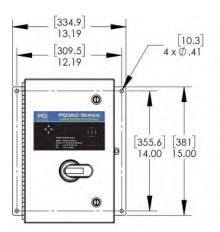
PRODUCT SPECIFICATIONS							
Status Indication	Two tri-color LEDs per Phase / Line / Protection Mode Rotatable Color Graphics LCD for Status, Resettable Surge and TOV Counter, Event History with time & date stamp Audible Alarm with Silence Function						
Disconnecting means	Integral rotary disconnect switch						
Certifications	Standard ModelsUL® 1449 Edition 5 Type 1 / Type 2EMI Filter ModelsUL® 1449 Edition 5 Type 2, UL® 1283						
Complies With	NEC <sup>®</sup> Article 242 (Article 285 - prior to 2020) UL <sup>®</sup> 96A Edition 14 Installation Requirements for Lightning Protection Systems ANSI <sup>®</sup> /IEEE <sup>®</sup> C62.41.1-2002 Category A, B, and C; C62.41.2-2002; and C62.45-2002 MIL-STD-220A – EMI Filter Models						
Short Circuit Current Rating (SCCR)	200 kA						
Maximum Discharge Current (I <sub>max</sub> )	480 kA per phase / 240 kA per mode - 8/20 μs						
Nominal Discharge Current (I <sub>n</sub> )	20 kA						
Impulse Life	10,000 Impulses at 10 kA 8/20 μs						
Frequency	0 – 600 Hz						
Filtering (EMI Filter Models)	-30 dB > 50 kHz, -45 dB > 250 kHz						
Operating Temperature	-31° to 167°F (-35 to 75°C)						
Mounting	Flange Mount						
Enclosure Rating	NEMA® Type 4, UL® 50E Type 4, suitable for indoor or outdoor installation						
Enclosure Material	Metal						
Dimensions	16.79 H x 13.19 W x 7.23 D in., 18.2 lb						
Connection Method	Parallel, mechanical lugs, rated 10 – 4 AWG						
Remote Monitoring Contacts	Form C, 5 A @ 240 V, 22-14 AWG stranded - IoT, BMS, and SCADA compatible						
Warranty	Ten (10) Years						

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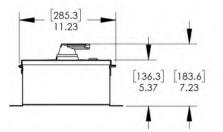
STANDARD MODELS   PQ480		MCOV	VPR			
Model Number	Configuration	(V)	L-G (V)	L-N (V)	N-G (V)	L-L (V)
PQ480-120/208-3Y	120/208V, 3-phase Wye, 4W+G	150 / 300	800	800	800	1000
PQ480-277/480-3Y	277/480V, 3-phase Wye, 4W+G	320 / 700	1200	1200	1200	2000
PQ480-347/600-3Y	347/600V, 3-phase Wye, 4W+G	420 / 880	1500	1500	1500	2500
PQ480-240-3D	240V, 3-phase Delta, 3W+G	280	1000	-	-	1200
PQ480-480-3D	480V, 3-phase Delta, 3W+G	550	1800	-	-	1800

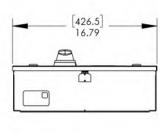
EMI FILTER MODELS   PQ480-F		MCOV	VPR			
Model Number	Configuration	(V)	L-G (V)	L-N (V)	N-G (V)	L-L (V)
PQ480-F-120/208-3Y	120/208V, 3-phase Wye, 4W+G	150/300	800	800	800	1000
PQ480-F-277/480-3Y	277/480V, 3-phase Wye, 4W+G	320 / 700	1200	1200	1200	2000
PQ480-F-347/600-3Y	347/600V, 3-phase Wye, 4W+G	420 / 880	1500	1500	1500	2500
PQ480-F-240-3D	240V, 3-phase Delta, 3W+G	280	1000	-	-	1200
PQ480-F-480-3D	480V, 3-phase Delta, 3W+G	550	1800	-	-	1800

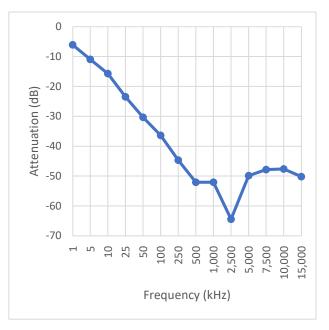


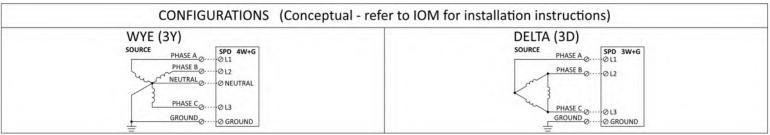
The EMI Filter option mitigates oscillatory ring waveforms – generally caused by non-linear loads inside the facility.

Typical oscillatory ring waveform sources include "transformer-less" switching power supplies for computers, IT equipment (network, monitors, printers), TVs, electronic ballasts for lighting, UPS, Inverter, Rectifier systems, and Variable Frequency (speed) Drives.









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