PQ PROTECTION SURGE PROTECTION DEVICES PQC320 & PQCF320 SERIES



PQC320 and PQCF320 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 PQC320 and PQCF320 are automatic in operation, resetting after activation to provide continuous protection of electrical equipment. The Ground Reference feature indicates if potential between neutral and ground exceeds ~20 V. The PQC320 and PQCF320 series feature pre-wired remote monitoring contacts.

The PQC320 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 PQCF320 with EMI Filter option is UL Type 2 listed and can be installed after the service equipment overcurrent device. The PQCF320 EMI Filter series protects your facility equipment from internally generated transients such as oscillatory ring waveforms - typically due to switch-mode power supplies within most modern electronic equipment.

and 100% Quality Tested prior to shipping	g.				
	PRODUCT SPECIFICATIONS				
	Individual LED indicators per Phase / Line / Protection Mode				
Status Indication	Alarm LED				
	Ground Reference Indication				
	Audible Alarm				
	Surge Counter: Optional on Standard Models – PQC320-S				
	Standard on EMI Filter Models – PQCF320-S				
Certifications	Standard Models UL® 1449 Edition 5 Type 1 / Type 2				
	EMI Filter ModelsUL® 1449 Edition 5 Type 2, UL® 1283				
	NEC® Article 242 (Article 285 - prior to 2020)				
Complies With	UL® 96A Edition 14 Installation Requirements for Lightning Protection Systems				
Compues with	ANSI®/IEEE® 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 _{max})	320 kA per phase / 160 kA per mode - 8/20 µs				
Nominal Discharge Current (In)	20 kA				
Frequency	50 Hz, 60 Hz, 400 Hz				
Filtering (EMI Filter Models)	-39.7 dB @ 100 kHz				
Operating Temperature	-40° to 185°F (-40 to 85°C)				
Mounting	34" nipple mount, optional Flush Mount kit				
Enclosure Rating	NEMA® Type 4X, UL® 50E Type 4, suitable for indoor or outdoor installation				
Enclosure Material	Polycarbonate				
Dimensions	6.9 H x 6.9 W (w/o nipple) x 3 D in., 4 lb				
Connections - Method	Parallel, pre-terminated 10 AWG stranded, ~36" length				
Recommended Circuit Breaker	30A (20A minimum), multi-pole as required				
Remote Monitoring - Contacts	Form C, 2 A @ 240 V, 22 AWG stranded, ~36" length, IoT, BMS, and SCADA compatible				
Warranty	Ten (10) Years				

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PQ PROTECTION SURGE PROTECTION DEVICES PQC320 & PQCF320 SERIES



STANDARD MODELS PQC320(-S)		MCOV	VPR					
Model Number	Configuration	(V)	L-G (V)	L-N (V)	N-G (V)	L-L (V)		
PQC320-120/240V-SP	120/240V, Split-phase, 3W+G	180/360	800	700	600	1200		
PQC320-120/208V-3Y	120/208V, 3-phase Wye, 4W+G	150/300	700	600	600	1000		
PQC320-277/480V-3Y	277/480V, 3-phase Wye, 4W+G	350/700	1200	1200	1000	2000		
PQC320-347/600V-3Y	347/600V, 3-phase Wye, 4W+G	440/880	1500	1500	1500	2500		
PQC320-240V-3D	240V, 3-phase Delta, 3W+G	275	900	-	-	1200		
PQC320-480V-3D	480V, 3-phase Delta, 3W+G	550	1800	-	-	1800		
PQC320-120/240V-HLD	120/240V, High-leg Delta, 4W+G	180/275	800/900	800/1000	700	1200/1500		
PQC320-120V-1P	120V, Single-phase, 2W+G	180	800	700	600	-		
PQC320-240V-1P	240V, Single-phase, 2W+G	350	1200	1200	1000	-		
To add optional Surge Counter - insert "-S" in model number, e.g., "PQC320-S-120V-1P"								

EMI FILTER MODELS PQCF320-S		MCOV	VPR			
Model Number	Configuration	(V)	L-G (V)	L-N (V)	N-G (V)	L-L (V)
PQCF320-S-120/208V-3Y	120/208V, 3-phase Wye, 4W+G	150/300	700	600	600	1000
PQCF320-S-277/480V-3Y	277/480V, 3-phase Wye, 4W+G	350/700	1200	1200	1000	2000
PQCF320-S-347/600V-3Y	347/600V, 3-phase Wye, 4W+G	440/880	1500	1500	1500	2500
PQCF320-S-240V-3D	240V, 3-phase Delta, 3W+G	275	900	-	-	1200
PQCF320-S-480V-3D	480V, 3-phase Delta, 3W+G	550	1800	-	-	1800
PQCF320-S-120/240V-HLD	120/240V, High-leg Delta, 4W+G	180/275	800/900	800/1000	700	1200/1500
PQCF320-S-120/240V-SP	120/240V, Split-phase, 3W+G	180/360	800	700	600	1200
PQCF320-S-120V-1P	120V, Single-phase, 2W+G	180	800	700	600	-
PQCF320-S-240V-1P	240V, Single-phase, 2W+G	350	1200	1200	1000	-

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

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



Flush Mount Kit PQC320-FP

8 in. x 12 in.





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