



Power Control Module (AC)

Dedicated power quality device

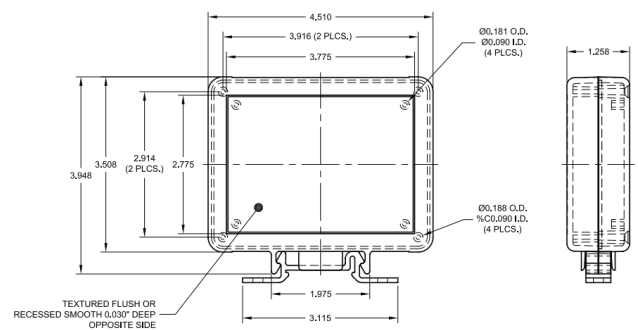
The ST-PCM is a unique approach to high performance power quality for dedicated equipment and individual circuits. The Hybrid Protection System utilizes traditional protection elements combined with our Broad Band Frequency Attenuation Network® that not only addresses transients and surges, but additionally removes high frequency noise that wreaks havoc on equipment causing internal functionality errors, zero-crossing areas and unneeded resets and errors.

The ST-PCM is designed to protect individual circuits feeding mission critical equipment ranging from variable frequency control signals to manufacturing and processing equipment that is subject to error codes due to various types of power disturbances. In addition, the ST-PCM is a critical component to be installed within critical equipment to protect the low voltage control lines within this equipment. The Dual Mounting System allows the product to be installed easily on an internal standard DIN rail, while without changing a thing, the installer can simply snap off the panel mount tab, mount it to the wall then snap the module back in place. The pluggable, detachable terminal blocks allow reduced installation time and module changeout in less than 30 seconds!

The ST-PCM is clearly superior and is the next generation of critical equipment protection. Don't allow another day to go by without it!

Superior features:

- Dedicated All Mode Protection covers all paths that a disturbance can go
- Hybrid Protection System with enhanced noise elimination circuitry
- 25 year unlimited free replacement warranty
- UL94-5VA and UL94V-0 rated durable non-conductive ABS enclosure
- 20 A maximum continuous operating current
- Peak surge current of 20 kA per mode, 60 kA total
- Pluggable/detachable quick connect terminal blocks for ease of installation
- Dual Mounting System allows one solution for both DIN rail and panel mount installations, combined with quick connect terminal blocks allows 30 second swap outs (in the unlikely event of a product failure)
- Vertical construction utilizes the height and length dimensions to limit the amount of horizontal space on the back panel or DIN rail to approximately 1.25 inches
- LED status indicator light monitors functionality, LED located on top surface of the PCM for ease of view
- Multiple configurations and options allow for a vast array of application installations
- Optional -N for removal of N-G attenuation
- Option -C1 for dry relay contact (NO/NC)





Power Control Module

PCM AC model number configurator				
	Technology	Voltage configuration		"y" = options
ST-PCMx-y	F = Enhanced surge filter	1P1 = Single phase 120 VAC (L, N, G)	DIN-	P = Parallel
		1P2 = Single phase 208-240 VAC (L, N, G)		4X = NEMA 4X clear cover enclosure
	T = Standard clamping	1P27 = Single phase 277 VAC (L, N, G)		W = 12 AWG wires instead of terminals
		2N2 = Single phase 208-240 VAC (2L, G)		*Leave blank if no options are selected - terminal standard.
		2N27 = Single phase 277 VAC (2L, G)		

Sample model number: ST-PCMF1P1DIN-4X - This model would be a PCM product with enhanced surge filtering, 24 120 VAC (line, neutral & ground), dual purpose DIN / panel mounting tab, housed in a NEMA 4X enclosure with a clear cover.

PCM AC electrical & mechanical specifications				
Model	Nominal operating voltage	Maximum continuous operating voltage (MCOV)	Maximum continuous operating current	Enclosure ratings
ST-PCMx1P1-DIN	Single phase 120 VAC (all modes)	150 VRMS (all modes)	20 amps for series application, unlimited for parallel rating	NEMA 1 rated (indoor) dual rated UL94-5VA and UL94V-0, NEMA 1 (indoor). Dual purpose mounting system for panel or DIN rail mounting in same package.
ST-PCMx1P2-DIN	Single phase 208-240 VAC (all modes)	300 VRMS (all modes)		
ST-PCMx2N2-DIN	Single phase 240 VAC (all modes)	300 VRMS (all modes)		

Surge protection device performance characteristics				
Model	Modes of protection	Let through voltages ANSI/IEEE C62.41 test category & C62.45 test environment		
ST-PCMF1P2-DIN	L-N, L-G, N-G	A1 ring wave 2 kV, 67 A @ 180° phase angle	A3 ring wave 6 kV, 200 A @ 180° phase angle	B3/C1 impulse wave 6 kV, 3 kA @ 90° phase angle
		L-N = 40 V L-G = 74 V N-G = 82 V	L-N = 92 V L-G = 192 V N-G = 104 V	L-N = 640 V L-G = 820 V N-G = 920 V
ST-PCMF2N2-DIN	L-L, L-G			
ST-PCMF1P1-DIN	L-N, L-G, N-G	L-N = 43 V L-G = 80 V N-G = 80 V	L-N = 132 V L-G = 275 V N-G = 266 V	L-N = 335 V L-G = 352 V N-G = 525 V



TRANSIENTS



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OSCILLATIONS



VOLTAGE VARIATIONS



FLICKER