

Z-Cap

Making capacitor switching as smooth as silk



Intelligent Zero Voltage Closing Control for Capacitor Switching

**Closing each capacitor switch at precisely the right time
Z-Cap effectively:**

- Eliminates switching related voltage transients
- Increases capacitor life by reducing inrush currents
- Improves power quality
- Diminishes harmonic distortion
- Lowers voltage peak surges

Accuracy is unparalleled

- Independent temperature compensation of local closing caps and bank switches
- Microprocessor based solenoid operation analysis
- Precisely controlled local closing energy storage
- Digital waveform analysis
- Automatic timing self adjustment based on closing feedback
- Line frequency monitoring

Bonus Features

- Compatible with any capacitor control or PLC
- Works with Maysteel, Joslyn, and Cooper solenoid operated switches
- Provides 52A Status and Control-Ready dry contact signals back to controlling device
- Digital control, monitoring and data storage available via RS-232 port

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Z-Cap

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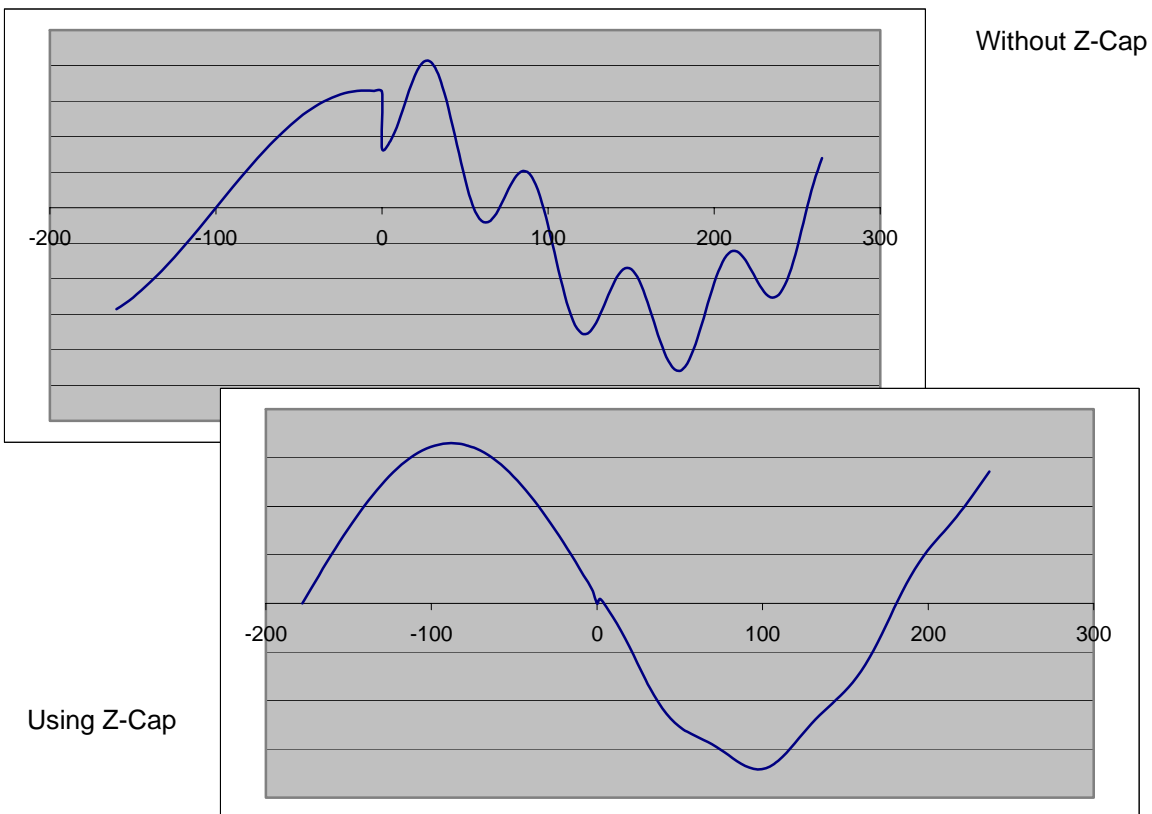
Specifications

Parameter	Range	Units
Operating Temperature	-20 to 145	Degrees F
Humidity (Non-Condensing)	0 to 100	Percent
Operating Voltage	110 to 140	VAC
Power Usage	0.5	Watt
Enclosure	Nema 4	Polycarbonate
Closing Accuracy	+/- 0.45	Millisecond

Configurations

Bank	Rotation	Voltage
Single Phase		Phase-Neutral
Three Phase Grounded Y	ABC	Phase-Neutral
Three Phase Grounded Y	ABC	Phase-Phase
Three Phase Grounded Y	CBA	Phase-Neutral
Three Phase Grounded Y	CBA	Phase-Phase
Three Phase Un-grounded Y	ABC	Phase-Phase
Three Phase Un-grounded Y	CBA	Phase-Phase

Examples of recorded voltage waveforms (contacts closed at time 0)



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