

# Elevator Edition

**Better Electrical Solutions  
for a Changing World**

## Greetings from Fitzgerald Spector Inc!

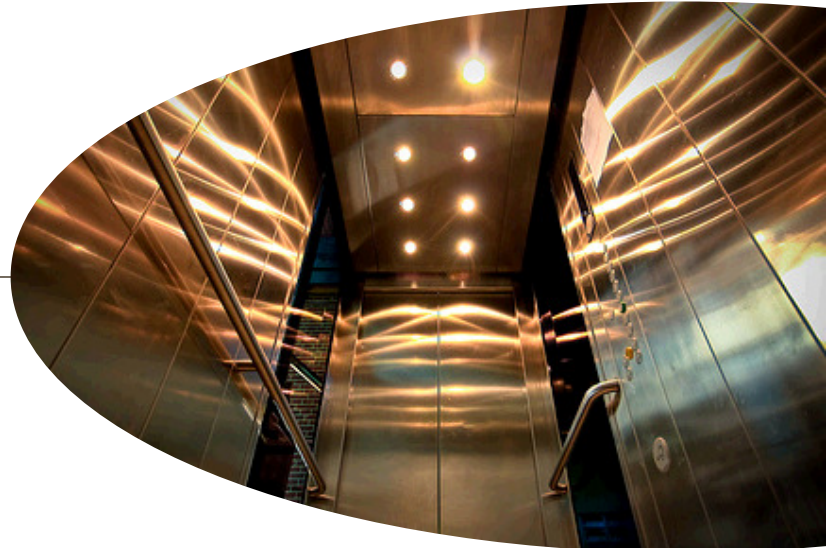
Fitzgerald Spector may be an unfamiliar name to you, but we have been in business for almost 15 years! Representing high quality electrical equipment, we work with our customers to identify the most effective solution to business problems. Our skilled and knowledgeable representatives are empowered to partner with our customers to provide solutions that meet their changing needs.

Fitzgerald Spector represents companies with innovative products that can reduce the time and costs needed to complete jobs. Thus we have devoted this issue of our newsletter to Elevators, an industry that recognizes the importance of quality products.

## *Sprecher+Schuh Knows Elevators*

Sprecher+Schuh has been a proud supplier for the elevator industry for over three decades. Many older product lines can be replaced with Sprecher's new product series. Their newest innovation for the hydraulic elevator market is a state of the art solid state, wye-delta soft starter, the PCEC series. In addition to the high quality contractors, overloads and starters Sprecher+Schuh provides, many accessory items are offered as well including:

- Control + Timing Relays
- Supplemental Protection Devices
- Miniature Circuit Breakers
- Fuse Holder
- Pilot Devices



# SOFTSTARTERS

## Overview

The PCEC Hydraulic Elevator Softstarter is a current-limiting solid state starter. It consists of four basic components: the control module, power module, fault contactor, and a selectable Class 10, 15 or 20 solid state Overload relay for motor protection.

## WHY ARE THEY BETTER?

### • Current-limiting

- Increases motor life by reducing or eliminating high current surges caused by traditional wye-delta starters. Also reduces or eliminates voltage drop in weak electrical systems.
- Reduces mechanical stress on entire hydraulic system. This results in less maintenance to the pump and related hydraulic components, and ultimately, less downtime.

### • Solid State

The softstarter itself contains no moving parts that can wear out. This reduces or eliminates regular maintenance. Electrical noise and heat generation is also reduced. The PCE provides a smooth, stepless ramp of the hydraulic pump motor from 0 to full speed.

Softstarters are wired "inside the delta". Lower current is passed through the softstarter, resulting in less heat generation, smaller devices, smaller panel space, and lower cost. The PCEC fits new and existing installations, providing an exact replacement for many wye-delta starters. PCEC can also be configured for Line connected 3-wire motor applications

### LED diagnostic display

An LED display indicates operating status and fault condition (overload, over temperature, phase reversal/phase loss, phase imbalance, shorted SCR, start fault). This enables speedy diagnosis and quick resolution of problems.



Wired inside the delta  
PCEC Hydraulic Elevator

### Flexible design

The PCEC softstarter matches the mounting hole configuration of many wye-delta solid state starters, allowing easy replacement. The unit features a 2-wire control interface to accommodate new and existing installations. It also includes "up to speed" contact for easy integration. Additional auxiliary contacts can be mounted on the side of the PCEC unit. Field-replaceable components mean easy maintenance.

### Standard fault contactor

A standard fault contactor isolates one side of the motor windings from the line power in case of softstarter fault or motor overload. Current flow is prevented by mechanical isolation in addition to the solid state SCR.

## MONOLITHIC PILOT DEVICES



### Momentary Pushbutton Devices Product Features

- Easy Installation
- Available with flush or extended cap
- Two color molding and laser engraving options for cap

### Emergency Stop Operators Product Features

- Push-pull and twist-to-release in one device
- Non-removable contacts promote safety in E-stop applications
- Arrows molded on cap indicate direction of release
- Trigger action anti-tease feature
- Externally tamperproof



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