



Wide adjustment range Fast & accurate response Low heat dissipation

CEP7 Solid State Overload Relays

Requires Less Inventory

Provides Better Motor Protection

Safely Decreases Panel Space

Saves Money

Connects directly to CA7 contactor while maintaining easy access to wiring terminals

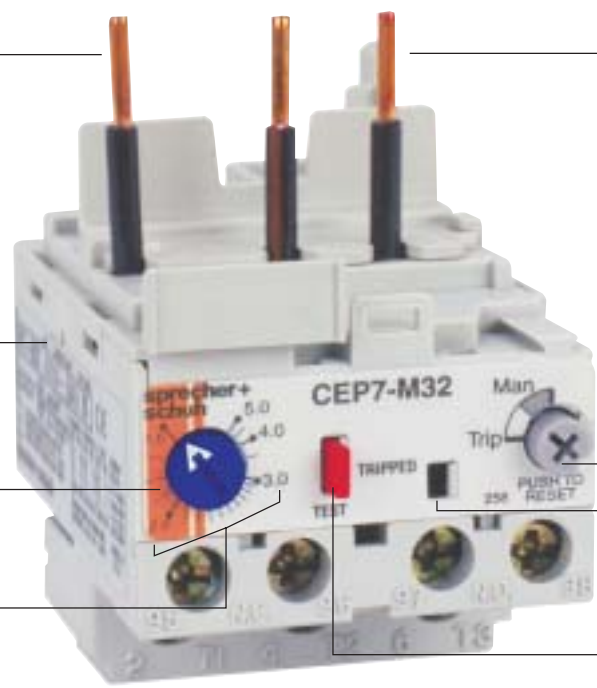
Direct retrofit into starter configurations currently using traditional electromagnetic technology

Generates only 150mW of heat, compared to 6 watts generated by conventional thermal overload relays

Wide adjustment range reduces inventory by up to 60%

Only 9 adjustment ranges required to cover 1-85 amp applications

On-board electronics react to phase loss in as little as 2 seconds



CEP7 is self-powered — no external power supply required

Electronic current measurement reduces heat generation by up to 97.5%

Choose Class 10 trip protection for T-frame motors, or Class 20 protection for motors with longer run-up times (Class 15 also available)

Choose manual or automatic reset option

Visible trip indication facilitates troubleshooting

Manual test allows NO & NC contacts to be checked for proper operation

Improved protection at a great price! Sprecher + Schuh's CEP7 is a fully-electronic solid state overload relay. The electronic technology behind the CEP7 provides **speed and accuracy** unmatched by electromechanical devices – but all for the same price!

By monitoring current flow to the motor electronically, the CEP7 **generates substantially less heat** than conventional thermal overload relays. The CEP7 is also **self-powered**, which means no separate control power source is needed.

A wide current adjustment range (3.2:1) makes product selection easy, and **reduces inventory requirements**. Only 9 ranges are required to cover 1-85 amp applications. This compares to 17 or more separate amp ranges with thermal overload relays.

Better performance and more features, **all for the same price**. CEP7 – the best choice for motor protection!



Fast, accurate response

The innovative CEP7 solid state relay offers **improved protection** with high repeat accuracy and fast response to phase failures. With its **electronic technology**, the CEP7 reacts in as little as two seconds to phase loss on a fully-loaded motor. A comparable electromechanical device would take 30 seconds or more to respond under the same conditions!



Microelectronics provide fast, accurate motor protection

State-of-the-art microelectronics permit the choice of relays with different trip classes to suit motors with normal (Class 10) or longer (Class 20) run up times. Manual, and selectable manual/automatic reset options are also available.

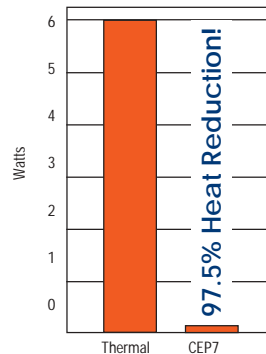
Wide range simplifies selection

CEP7's **wide trip current range** (3.2:1) means fewer units are required to cover a broad range of applications. Comparable bimetallic relays have much smaller ranges, 1.5:1 for example. With only 9 ranges to choose from instead of 17 or more, selecting the right CEP7 relay is much easier, and **inventory requirements are reduced** by up to 60%.

Trip current, manual trip and reset controls are easily accessible



Less heat = lower panel cost



By measuring current flow to the motor electronically, the CEP7 relay produces about 150mW of heat. This is a 97.5% reduction compared to thermal overload devices using heat simulation to detect excessive current! With less heat produced, motor starter density can be safely increased while panel space is decreased — reducing overall cost of the installation.

Compact installation

The CEP7 is designed to connect directly to our space-saving CA7 contactor. This provides a particularly compact assembly while retaining easy access to all wiring terminals.

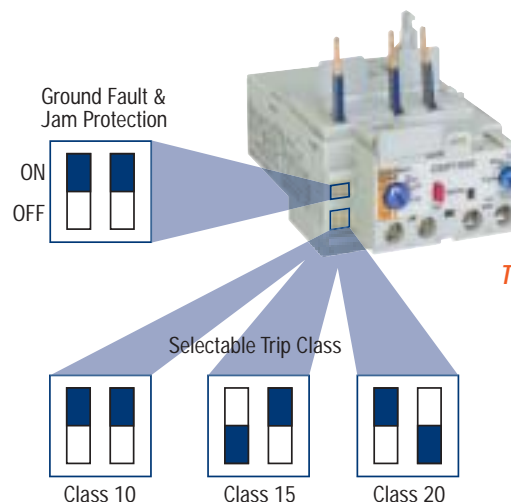
A **separate mounting bracket** permits the CEP7 to be used with other contactors as well. Because of its standard size and fit, the CEP7 is easily retrofitted into applications currently utilizing conventional electromechanical devices.



Many CEP7 models available

Accuracy with flexibility sets the CEP7 apart. Aside from the standard Class 10 overload with manual reset, we also offer:

- Trip Class 20 with manual reset
- Trip Class 10 with manual and automatic reset
- Trip Class 20 with manual and automatic reset
- Selectable Trip Class 10, 15 or 20 with integrated ground fault and jam protection; manual and automatic reset
- Our new CEP7B is the **ultimate motor protection relay** in this price class. DIP-switches provide Trip Class selection (10, 15 or 20 seconds), as well as Ground Fault and Jam Protection. Ground Fault protection trips at 50% of FLA setting, while Jam / Stall Protection trips at 400% of FLA (after inrush).



The new CEP7B offers Ground Fault and Jam Protection... features not found in this class of relays