



Low Power Consumption Low Profile Design Electronic DC Coil Relay

CS7E Industrial Control Relays with 24V DC Electronic Coil

Same size as
AC coil relays

Draws less than
1.5W/60mA

More energy
efficient

Standard, Master &
Bifurcated models

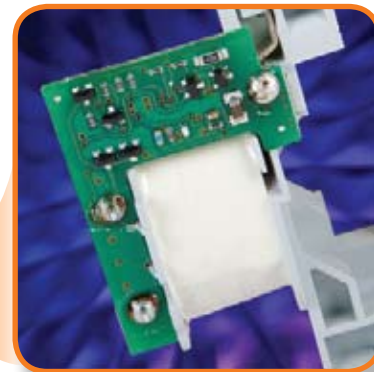
Reversible Line or Load
Side Coil Terminations

DIN Rail or
Screw Mount

3-pole and 4-pole
designs including
Reversing

Accepts most standard
CS7 accessories

Only 45mm wide (1-3/4")



24V DC Electronic Coil with
integrated (built-in) diode

Low Consumption DC Coils

Sprecher+Schuh has expanded its line of CS7 industrial Control Relays with a new low consumption electronic coil. The 24V DC coil with low power consumption is integrated in a small relay body and draws less than 1.5 W/60mA holding power. The new design results in a shorter and more energy efficient relay, eases wiring and promotes a uniform panel appearance.

Direct Control from PLC

The low power consumption relay designed to control motors and other loads is especially aligned to the specific requirement of electronic control circuits. The low power consumption allows direct control through PLC's without the need for interposing relays. This means smaller power supplies which reduce panel space and cost.



CS7E Relay with 24V DC Electronic Coil

| Contact Arrangement and Numbering | Contacts ① | | Standard Relay Catalog Number | Also Available | |
|-----------------------------------|------------|----|-------------------------------|----------------|--------|
| | NO | NC | | Bifurcated | Master |
| | 2 | 2 | CS7E-22E-24E | ✓ | ✓ |
| | 3 | 1 | CS7E-31E-24E | ✓ | ✓ |
| | 4 | 0 | CS7E-40E-24E | ✓ | ✓ |
| | 0 | 4 | CS7E-04E-24E | ✓ | ✓ |

Three Types of Relays

- Standard relay for typical control applications
- Bifurcated relay for low voltage applications
- Master relay for high ampere control circuits

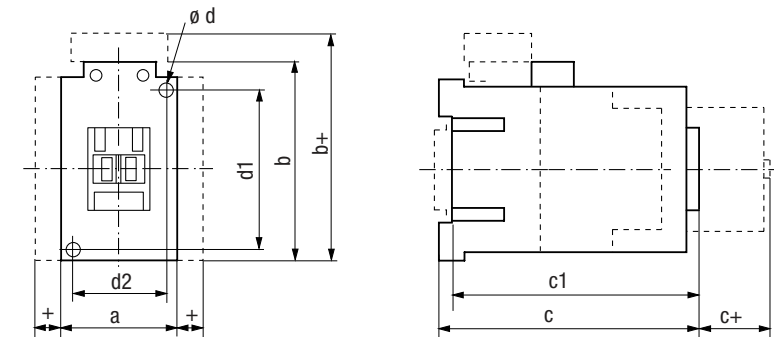
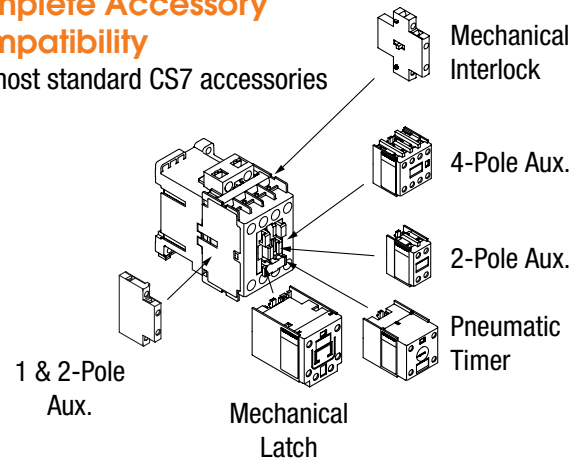
Extremely Low Inrush

Lower inrush means a smaller power supply may be used, resulting in:

- Easier wiring
- Uniform panel appearance
- Smaller panels mean less cost

Complete Accessory Compatibility

Fits most standard CS7 accessories



Dimension Comparison to True DC Relays

| | a | b | c | c1 | c2 | ød | d1 | d2 |
|-------------------------------------|-----------------|----------------|-------------------|------------------|------------|---------------------------|-----------------|-----------------|
| NEW! 24V DC Electronic Relay | | | | | | | | |
| CS7E -... | 45 (1-25/32) | 81 (3-3/16) | 80.5 (3-11/64) | 75.5 (3-3/32) | 6 (1/4) | 2 screws 4.5 (3/16) | 60 (2-23/64) | 35 (1-25/64) |
| True DC Relays | | | | | | | | |
| CS7C-... | 45 (1-25/32) | 81 (3-3/16) | 106.5 (4-3/16) | 101.5 (4) | 6 (1/4) | 2 screws 4.5 (3/16) | 60 (2-23/64) | 35 (1-25/64) |

26mm Shorter than True DC
CS7E vs. CS7C



Coil Consumption Data Comparison

| | Electronic DC Coil CS7E | True DC Coil CS7C | Two Winding DC Coil CS7D |
|------------|-------------------------|-------------------|--------------------------|
| Pickup [W] | 10 | 6.5 | 120 |
| Holdin [W] | 1.5 | 6.5 | 1.1 |

12x Less Inrush
CS7E vs. CS7D

4x Less Power to Maintain
CS7E vs. CS7C

Smaller space requirement + lower inrush = LESS COST!