

CS8 Industrial Control Relays

The miniature relay system with big advantages



CS8 front mount auxiliaries are positive guidance

Despite increasing complexity, control systems and installations must become increasingly compact. And the CS8 Miniature Relay System packs maximum performance into minimum space.

Small but rugged

Sprecher + Schuh has subjected this relay series to monitored endurance tests that demonstrate their ruggedness. Under normal duty, CS8 contacts have an electrical life of 700,000 operations, while the AC magnet system has a mechanical life of 15,000,000 operations.

The coil is designed for absolute under-voltage reliability. Undervoltages that do not cause the contactor to close can be withstood indefinitely without damage.

The body of the device is sturdy as well. The front housing, containing the phase partitions and screwdriver guides, is manufactured in one piece. Front and rear housing are then joint fitted together.

Superior Contact Reliability

The standard CS8 base relay and auxiliary contacts are bifurcated H-bridge design which divides each movable contact into two sections at the tip of the spanner which provides a higher degree of reliability for low signal applications. Perfect fit for PLC and other electronic circuits operate at signals as low as 15V @ 2mA.

Mechanically linked contacts for safety

The CS8 control relays are the perfect choice for fail-safe control circuits to meet mechanically linked performance per IEC 60947-4-1. Mechanically linked is an interlock contact design that maintains minimum 0.5mm clearance which prevents the NC contact from reclosing if the NO contact is welded when in operation. This feature applies to CS8 base relays with AC & DC coils; base relays and add-on auxiliaries for DC coils only.



Accessories require no additional panel space

The entire CS8 system is logically engineered. Auxiliary contact blocks are modular and snap-on without increasing the CS8's original width of 45mm. Also, due to its sideways switching movement, the basic relay has the same low profile whether an AC or DC operating magnet is used. This permits the use of enclosures with shallow mounting depths. Once the CS8 is installed, all auxiliary contact blocks can be snapped on or removed without changing any existing wiring.

Auxiliary components provide flexibility

CS8 auxiliary components allow you to convert the basic four pole relay up to an 8 pole relay.

Effortless installation

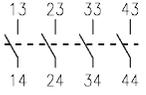
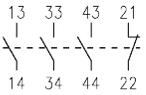
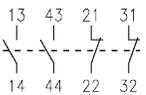
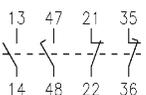
CS8 relays are DIN-rail mountable for instant installation and modification. Fittings are also included for base mounting. All terminals are clearly marked and shipped in the open position for installation with either manual or power screwdrivers. Using self-adhesive labels, or plastic clip-on tags.

The entire line is cULus Listed and CE Certified and offers finger and back of hand protection to the strictest international standards.

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CS8 Control Relays

CS8 Complete Assemblies - 4 Pole

CS8 Relay	Contact Arrangement and Numbering	Contacts		AC Operation	DC Operation
		NO	NC	Catalog Number	Catalog Number
		4	0	CS8-40E-*	CS8C-40E-*
		3	1	CS8-31Z-*	CS8C-31Z-*
		2	2	CS8-22Z-*	CS8C-22Z-*
		1+ 1EM	1+ 1LB	CS8-L22Z-*	CS8C-L22Z-*

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CS8 Control Relays

Contact Ratings (Per UL508/NEMA B600 & Q600) ③

Standard	Circuit Voltage	Make (Amps/VA)	Break (Amps/VA)	Continuous Amps
B600	120AC	30A/3600VA	3.0A/360VA	10
	240AC	15A/3600VA	1.5A/360VA	
	480AC	7.5A/3600VA	0.75A/360VA	
	600AC	6A/3600VA	0.60A/360VA	
Q600	125DC	0.55A/69VA	0.55A/69VA	2.5
	250DC	0.27A/69VA	0.27A/69VA	
	301-600DC	0.1A/69VA	0.1A/69VA	

Mechanical Link

- Base relay meets IEC 60947-5-1. See page G2:4 for additional information.

AC Coil Codes ①

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
48Z	48V	48V
120	110V	120V
208	200V-220V	208V-220V
230	230V	230V
240	240V	240V
415Z	415V	415V
480	440V	480V
600 ④	525V	600V

DC Coil Codes ①

DC Coil Code	Voltage
12D	12V
24D	24V ②
48D	48V
110D	110V
125D	125V
220D	220V

Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Codes on this page

- ① The coil codes shown are for the most commonly stocked items. Contact your Sprecher + Schuh representative to determine if other voltages are on-hand or can be specially ordered in quantity.
- ② Integrated diode surge suppressor coils available. Order coil code **24DD**. For example CS8C-22Z-**24DD** becomes CS8C-22Z-**24DD**. List price adder applies.
- ③ Contacts are bifurcated (H-bridge) with a minimum current rating of 2mA @ 15V.
- ④ Use this code for 575V applications.