Series CA7 Electronic

DC Coil Confactors





Sprecher + Schuh has expanded its line of CA7 industrial contactors with a low consumption electronic coil. The electronic DC coil with low power consumption is integrated in a small contactor body and draws less than 1.7W/70mA holding power. The new design results in a shorter and more energy efficient contactor, as it eases wiring and uniform panel appearance.

- Electronic DC Coil with integrated (built-in) diode
- Extremely low inrush
- Coil selections 12V and 24V are same size as AC coil contactors
- Coil selections 36-250V DC have an added power module of only 24mm
- Draws less than 1.7W/70mA
- RoHS compliant
- NEMA labeled contactors available
- IP2X finger protection







Advantages of Electronic DC Coil

CA7-9E through CA7-55E are provided with DC coils that dramatically decrease wattage consumption during pull-in. This allows the use of smaller power supplies. The electronic DC coil design brings the same size as the AC version for 12V or 24V. The 36V...250V versions are only slightly different dimensionally due to the power module "backpack".

Advanced safety and reliability features

The entire CA7 line features mechanically linked contacts, sometimes referred to as "positively guided contacts" or "force guided contacts." If a main power pole welds, adequate clearances exist (≥0.3mm) to ensure that the auxiliary contacts do not change state when coil power is removed and the device tries to open. This is a requirement in safety circuits per IEC 60947-5-1. Reliability is further assured by "cross-stamped" auxiliary contacts, which provide multi-point reliability in low current, low voltage applications.

Direct Control from PLC

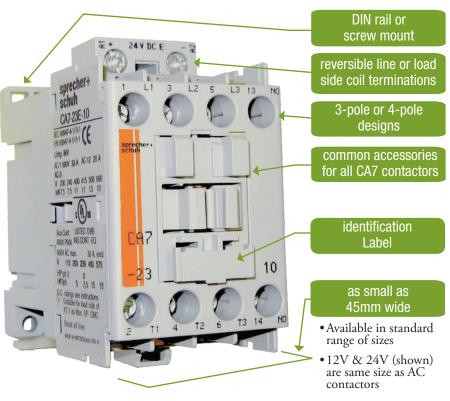
The low power consumption contactor designed to control motors and other loads is especially aligned to the specific requirement of electronic control circuits. The low power consumption allows direct control through PLC's without the need for interposing relays. This means smaller power supplies which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

Accessories

Most standard accessories are interchangeable among CA7 electronic coil contactors (excludes electronic timers). This minimizes inventory requirements and maximizes flexibility. Top and side mount auxiliary contacts are available. A mechanical interlock with two built-in NC auxiliaries also provides electrical interlocking if desired. Pneumatic timers, surge suppressors and electronic interface modules provide solutions for even the most complex applications.



Series CA7 Features

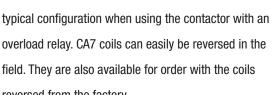


Power Module "Backpack" Voltages of 36V DC and greater are supplied with backpack module as standard. H

Contact your Sprecher + Schuh representative for more information.

Ratings for Switching AC Motors (AC2 / AC3 / AC4)						3-Pole Open Type	Also Available	
UL/CSA HP (60 Hz)							0	ng
10		3 Ø				Catalog	4-pole	Reversing
115V	230V	200V	230V	460V	575V	Number Prefix	4	Re
1/2	1 1/2	2	2	5	7-1/2	CA7-9E	~	~
1/2	2	3	3	7-1/2	10	CA7-12E	~	~
1	3	5	5	10	15	CA7-16E	~	~
2	3	5	7-1/2	15	15	CA7-23E	~	~
2	5	7-1/2	10	20	25	CA7-30E		~
3	5	10	10	25	30	CA7-37E		~
3	7-1/2	10	15	30	30	CA7-43E		~
5	10	15	20	40	40	CA7-55E		~

All CA7 contactors are stocked and delivered with the coil terminals located on the line side (top) of the contactor. This is the



overload relay. CA7 coils can easily be reversed in the field. They are also available for order with the coils reversed from the factory.

Coil Data - Electronic DC

Voltage Range						
Voltage Code	Nominal Voltage US (VDC)	Ratings [X <i>U</i> ₅]				
12E	12	0.71.25				
24E	24	0.71.25				
36E	3648	0.71.25				
48E	4872	0.81.25				
110E	110125	0.71.25				
220E	220250	0.71.1				

Coil Consumption & Operating Times •									
Picku	ıp (W)	Hold-	in (W)	Dropout	Pickup [ms]	Dropout [ms]			
CA7-9E CA7-37E	CA7-43E CA7-55E	CA7-9E CA7-37E	CA7-43E CA7-55E	Voltage [X <i>U</i> ₅]					
10/17	16/25	1.7	2.5	0.0 0.40	2550	2745			
10/17	16/25	1.7	2.5	0.30.40					
10/17	16/25	1.71.9	2.52.7		2550	2333			
10/17	16/25	1.71.9	2.52.7	0.30.4					
12/19	16/26	2.02.1	2.72.8	0.30.4					
14/22	18/29	2.73.0	3.54.0						

1 The hold-in demand of the CA7-9E...55E is very low but the pick-up demand is approximately 1 ampere at 24 VDC. When sizing (dimensioning) a power supply for applications involving parallel switched contactors then multiply the peak demand by the number of contactors to be simultaneously switched and add to the hold-in demand of all other control circuit burdens, including other contactors, pilot devices, solenoids, etc.

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