

Series CA7 Contactors

Contactors

CA7

Rugged, space saving
and modular...

Sprecher + Schuh's
newest contactor for
applications up to
75HP @ 460V



Over 100 years of design experience has produced Sprecher + Schuh's seventh generation contactor line. The CA7 represents the most modern and flexible power contactor available today, meeting the highest industrial application requirements.

Big performance in a small package

A wide selection of eleven contactors in four frame sizes covers the entire CA7 horsepower range (up to 75HP @ 460/575V). Six of the contactors are only 45mm wide, an extremely small footprint for such rugged performance. A number of design features account for this efficiency, including high contact pressure and "bounce-free" contacts, allowing the devices to handle the high starting currents typical of modern motors.

Type 1 and Type 2 Coordination

Whether you're designing motor circuits for use in North America, Europe or any other part of the world, all CA7 contactors have been designed and tested with respect to Type 1 and Type 2 short circuit coordination. Find out more in the CA7 Technical Information section in this chapter.

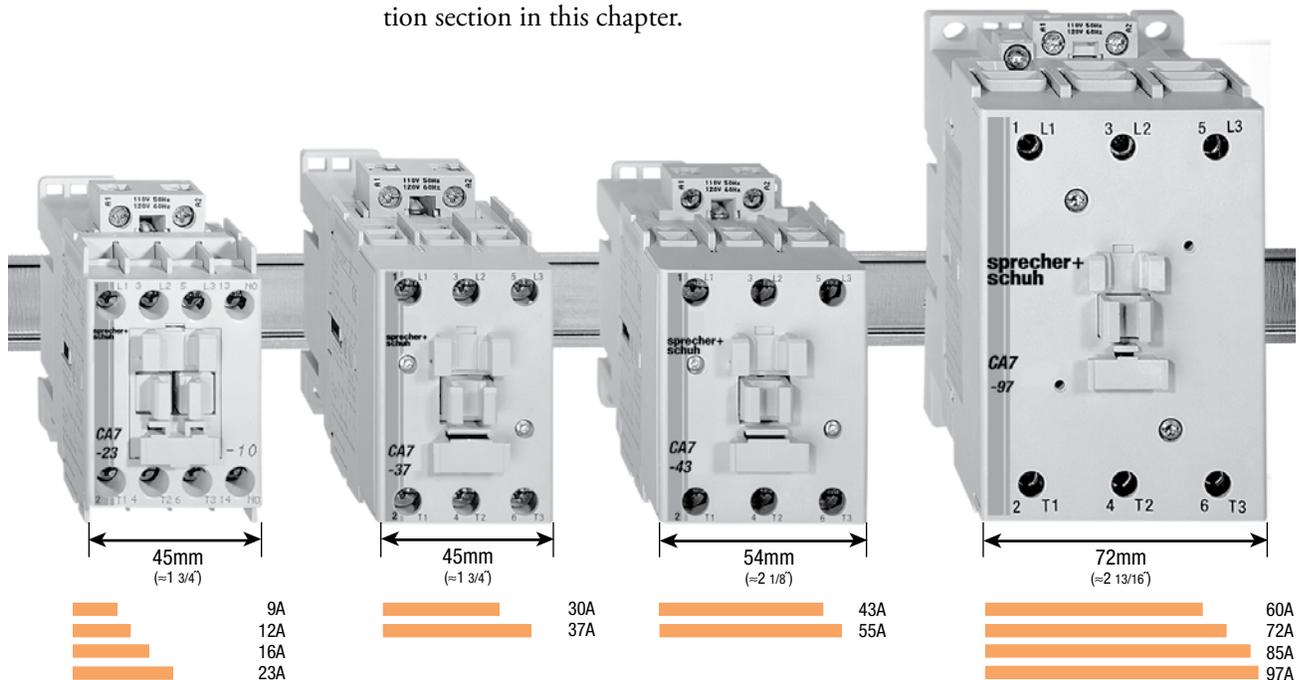
Advanced safety and reliability features

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 ($\geq 0.3\text{mm}$) 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.

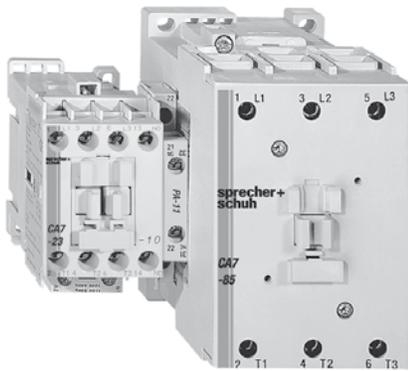
Advantages of Electronic DC Coil

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 height of the contactor back down to the same size as the AC version. Select CA7 contactors are also available with a two-winding DC coil that reduces the size of the contactor as well as the hold-in values.



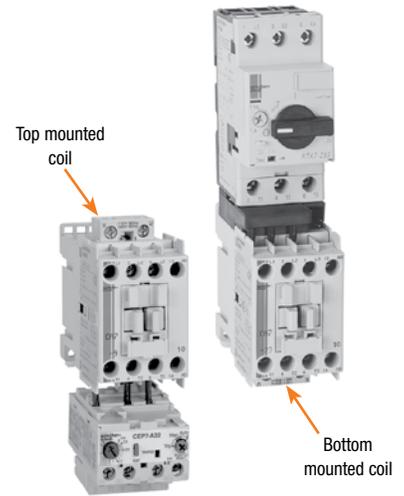
Modular accessories are common to all devices

All accessories are interchangeable among all CA7 contactors and CS7 control relays. This minimizes inventory requirements and maximizes flexibility. Top and side mount auxiliary contacts are available depending on your application. A mechanical interlock with two built-in NC auxiliaries also provides electrical interlocking if desired. Pneumatic and electronic timers, surge suppressors and electronic interface modules provide solutions for even the most complex applications.



Reversible coil provides total flexibility

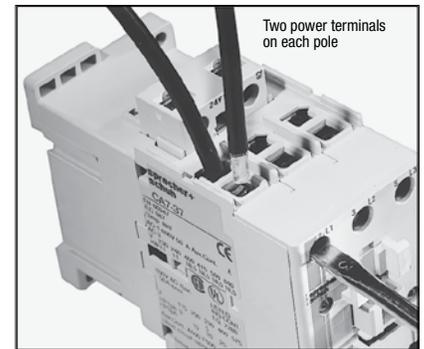
When shipped, both coil connections are normally located at the top of the contactor in preparation for mounting an overload relay at the bottom. For multi-starter panels, however, the coil can be reversed, which provides space to close-couple a KT7 Motor Circuit Controller on the top of the contactor. CA7 contactors can either be ordered with the coil reversed or may be easily reversed in the field.



Reversible coils are standard on all CA7 contactors

Dual power terminals speed wiring

CA7-30 through 97 contactors are designed with two power terminals for all three poles. This simplifies power wiring of interconnected contactors in reversing, reduced voltage and two-speed applications. Preformed power wiring connectors are also available for virtually instantaneous wiring in these labor intensive applications. Simplified wiring means less labor and less cost.



Dual power terminals assure hassle-free wiring in complex control schemes

Special use contactors for specialized applications

The CA7 line has been expanded to include a number of contactors designed and labeled for specific industrial applications. In all cases, these devices are UL and CSA approved for these specialized uses.

Lighting contactors

The CAL7 contactor can be used to control a wide variety of lighting loads. These contactors are well suited to handle the high inrush currents typical of this application as well as other non-motor (resistive) loads. Both mechanically held and electrically held models are available for lighting load applications up to 20A, 30A and 60A.



CAL7 Lighting Contactor



CAN7 NEMA labeled contactor



CNX Special Purpose Contactor

NEMA Labeled Contactors

CAN7 contactors are UL Listed and rated in accordance with the requirements of NEMA standards publication ICS-2. These contactors are NEMA compliant and are labeled accordingly.

Special purpose contactors

CNX contactors are standard CA7 contactors that have been tested, approved and labeled by UL for heating ventilation and air conditioning (HVAC) applications.

Sprecher + Schuh's expanded CA7 line includes contactors designed and labeled for specific industrial applications

Non-Reversing, Three Pole Contactors With AC Coil, Series CA7 (Open type only) ①

I _e [A] ①		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V / 415V	500V	690V	1 Ø		3 Ø					
												115V	230V	200V	230V
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	1	0	CA7-9-10-*	120
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	1	0	CA7-12-10-*	155
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	1	0	CA7-16-10-*	174
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	1	0	CA7-23-10-*	193
30	65	10	15	15	15	2	5	7-1/2	10	20	25	0	0	CA7-30-00-*	222
												1	0	CA7-30-10-*	244
												0	1	CA7-30-01-*	244
37	65	11	18.5/ 20	20	18.5	3	5	10	10	25	30	0	0	CA7-37-00-*	266
												1	0	CA7-37-10-*	288
												0	1	CA7-37-01-*	288
43	85	13	22	25	22	3	7-1/2	10	15	30	30	0	0	CA7-43-00-*	286
												1	0	CA7-43-10-*	308
												0	1	CA7-43-01-*	308
55	85	15	30	30	22	5	10	15	20	40	40	0	0	CA7-55-00-*	323
												1	0	CA7-55-10-*	345
												0	1	CA7-55-01-*	345
60	100	18.5	32	37	32	5	10	15	20	40	50	0	0	CA7-60-00-*	350
												1	0	CA7-60-10-*	372
												0	1	CA7-60-01-*	372
72	100	22	40	45	40	5	15	20	25	50	60	0	0	CA7-72-00-*	403
												1	0	CA7-72-10-*	425
												0	1	CA7-72-01-*	425
85	100	25	45	55	45	7-1/2	15	25	30	60	60	0	0	CA7-85-00-*	460
												1	0	CA7-85-10-*	482
												0	1	CA7-85-01-*	482
97	130	30	55	55	55	10	20	30	30	75	75	0	0	CA7-97-00-*	577
												1	0	CA7-97-10-*	599
												0	1	CA7-97-01-*	599



CA7-9-10 contactor



CA7-43-00 contactor



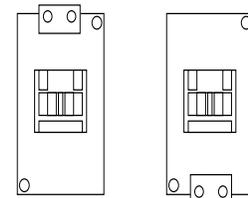
CA7-60-00 contactor

Coil Codes ②

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V-240V
240	220V	240V
277	240V	277V
380	380V-400V	440V
480	440V	480V
600	550v	600V

Coil Terminal Position

All CA7 contactors are stocked and delivered with the coil terminals located on the line side (top) of the contactor. This is the typical configuration when using the contactor with an overload relay. When the contactor is used with the KT7 Motor Circuit Controller, the coil must be reversed, so that the coil terminals are located at the load side (bottom) of the contactor. CA7 coils can easily be reversed in the field, however, they are also available for order with the coils reversed from the factory. Contact your Sprecher+Schuh representative for more information about ordering CA7 contactors with reversed coils.



All CA7 contactors come with reversible coils.

Ordering Instructions

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

- ① AC1 Resistive Ratings and UL/CSA Continuous Current Ratings may be increased by the use of Lug Kits or Paralleling Links. See CA7 Accessories section for applicable information.
- ② Other voltages available, see page A56. Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.

Non-Reversing, Four Pole Contactors With AC Coil, Series CA7 (Open type only)

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Contact Configuration, Main Pole		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	400V		500V	690V	1 Ø		3 Ø					
230V	415V			115V	230V			200V	230V	460V	575V	NO	NC	Catalog Number	Price
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	4	0	CA7-9-M40-*	120
												3	1	CA7-9-M31-*	132
												2	2	CA7-9-M22-*	132
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	4	0	CA7-12-M40-*	157
												3	1	CA7-12-M31-*	167
												2	2	CA7-12-M22-*	167
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	4	0	CA7-16-M40-*	176
												3	1	CA7-16-M31-*	186
												2	2	CA7-16-M22-*	186
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	4	0	CA7-23-M40-*	194
												3	1	CA7-23-M31-*	206
												2	2	CA7-23-M22-*	206
37	75	11	18.5	20	18.5	3	5	10	10	25	30	4	0	CA7-40-M40-*	385
												2	2	CA7-40-M22-*	385
85	130	25	45	55	45	7-1/2	15	25	30	60	50	4	0	CA7-90-M40-*	657
85	130	25	45	55	18.5	7-1/2	15	25	30	50	20	2	2	CA7-90-M22-*	657



CA7-23-M22-120 contactor

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Contactors

CA7

Coil Codes ①

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V-240V
240	220V	240V
277	240V	277V
380	380V-400V	440V
480	440V	480V
600	550V	600V

Ordering Instructions

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

① Other voltages available, see page A56. Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.

Non-Reversing, Three Pole Contactors With Electronic DC Coil, Series CA7 (Open type only) ①②③

I _b [A] ①		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V/ 415V	500V	690V	1 Ø		3 Ø					
115V	230V							200V	230V	460V	575V				
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	1	0	CA7-9E-10-*	197
												0	1	CA7-9E-01-*	
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	1	0	CA7-12E-10-*	242
												0	1	CA7-12E-01-*	
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	1	0	CA7-16E-10-*	267
												0	1	CA7-16E-01-*	
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	1	0	CA7-23E-10-*	292
												0	1	CA7-23E-01-*	
30	65	10	15	15	15	2	5	7-1/2	10	20	25	0	0	CA7-30E-00-*	332
												1	0	CA7-30E-10-*	354
												0	1	CA7-30E-01-*	354
37	65	11	18.5/ 20	20	18.5	3	5	10	10	25	30	0	0	CA7-37E-00-*	392
												1	0	CA7-37E-10-*	414
												0	1	CA7-37E-01-*	414
43	85	13	22	25	22	3	7-1/2	10	15	30	30	0	0	CA7-43E-00-*	455
												1	0	CA7-43E-10-*	475
												0	1	CA7-43E-01-*	475
55	85	15	30	30	22	5	10	15	20	40	40	0	0	CA7-55E-00-*	465
												1	0	CA7-55E-10-*	487
												0	1	CA7-55E-01-*	487



CA7-16E-10-110E contactor ④



CA7-23E-10-24E contactor



CA7-37E-00-24E contactor

Description

Low Consumption Electronic DC coils have extremely low inrush which allows the use of smaller power supplies. CA7-9E...43E has internal surge suppression. See page A68 for more information.

This new design results in:

- Lighter, lower depth
- More energy efficient contactors
- Easier wiring
- Uniform panel appearance.

Applications

Direct control from PLC:

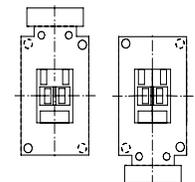
The low power consumption contactor designed to control motors and other loads is especially aligned to the specific requirement of electronic control circuits. The low power consumption of 1.7 allows direct control through PLC's without the need for interposing relays. Power dissipation is greatly reduced limiting the heat effect in control panels.

Coil Codes ②④

DC Coil Codes	Voltage
12E	12V
24E	24V
48E ⑤	48-72V
110E ⑤	110-125V
220E ⑤	220-250V

Coil Terminal Position

All CA7 contactors are stocked and delivered with the coil terminals located on the line side (top) of the contactor. This is the typical configuration when using the contactor with an overload relay. When the contactor is used with the KT7 Motor Circuit Controller, the coil must be reversed, so that the coil terminals are located at the load side (bottom) of the contactor. CA7 coils can easily be reversed in the field, however, they are also available for order with the coils reversed from the factory. Contact your Sprecher+Schuh representative for more information about ordering CA7 contactors with reversed coils.



All CA7 contactors come with reversible coils. (48V DC shown)

- ① AC1 Resistive Ratings and UL/CSA Continuous Current Ratings may be increased by the use of Lug Kits or Paralleling Links. See CA7 Accessories section for applicable information.
- ② CA7-9E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils.
- ③ See page A47 for limitations on adding auxiliaries to Electronic DC Coil contactors.
- ④ Voltages of 48V DC and greater are supplied with backpack module standard. See page A85.
- ⑤ Not applicable with Electronic Timer accessories (CRZ_7).

Non-Reversing, Four Pole Contactors With Electronic DC Coil, Series CA7 (Open type only) ①②

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Contact Configuration, Main Pole		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V	500V	690V	1 Ø		3 Ø					
415V	115V				230V			200V	230V	460V	575V				
												NO	NC	Catalog Number	Price
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	4	0	CA7-9E-M40-*	198
												3	1	CA7-9E-M31-*	210
												2	2	CA7-9E-M22-*	210
12	32	1	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	4	0	CA7-12E-M40-*	240
												3	1	CA7-12E-M31-*	252
												2	2	CA7-12E-M22-*	252
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	4	0	CA7-16E-M40-*	264
												3	1	CA7-16E-M31-*	277
												2	2	CA7-16E-M22-*	277
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	4	0	CA7-23E-M40-*	290
												3	1	CA7-23E-M31-*	302
												2	2	CA7-23E-M22-*	302
37	75	11	18.5	20	18.5	3	5	10	10	25	30	4	0	CA7-40E-M40-*	520
37	75	11	18.5/20	18.5	7.5	3	5	10	10	25	15	2	2	CA7-40E-M22-*	535



CA7-23E-M22-24E contactor

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Contactors
CA7

Description

Low Consumption Electronic DC coils have extremely low inrush which allows the use of smaller power supplies. CA7-9E...43E have internal surge suppression. See page A68 for more information.

This design results in:

- Lighter, lower depth
- More energy efficient contactors
- Easier wiring
- Uniform panel appearance

Applications

Direct control from PLC:

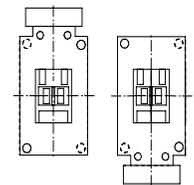
The low power consumption contactor designed to control motors and other loads is especially aligned to the specific requirement of electronic control circuits. The low power consumption of 1.7 allows direct control through PLC's without the need for interposing relays. Power dissipation is greatly reduced limiting the heat effect in control panels.

Coil Codes ①③

DC Coil Codes	Voltage
12E	12V
24E	24V
48E ④	48-72V
110E ④	110-125V
220E ④	220-250V

Coil Terminal Position

All CA7 contactors are stocked and delivered with the coil terminals located on the line side (top) of the contactor. This is the typical configuration when using the contactor with an overload relay. When the contactor is used with the KT7 Motor Circuit Controller, the coil must be reversed, so that the coil terminals are located at the load side (bottom) of the contactor. CA7 coils can easily be reversed in the field, however, they are also available for order with the coils reversed from the factory. Contact your Sprecher+Schuh representative for more information about ordering CA7 contactors with reversed coils.



All CA7 contactors come with reversible coils. (48V DC shown)

- ① CA7-9E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils
- ② See pages A47 for limitations on adding auxiliaries to Electronic DC Coil contacts.
- ③ Voltages of 48V DC and greater are supplied with backpack module standard. See page A85.
- ④ Not applicable with Electronic Timer accessories (CRZ_7).

Non-Reversing, Three Pole Contactors With Two Winding DC Coil, Series CA7 (Open type only) ①

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor ①		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V/415V	500V	690V	1 Ø		3 Ø					
115V	230V							200V	230V	460V	575V	NO	NC	Catalog Number	Price
60	100	18.5	32	37	32	5	10	15	20	40	50	0	0	CA7-60D-00-*	475
												1	0	CA7-60D-10-*	497
												0	1	CA7-60D-01-*	497
72	100	22	40	45	40	5	15	20	25	50	60	0	0	CA7-72D-00-*	530
												1	0	CA7-72D-10-*	552
												0	1	CA7-72D-01-*	552
85	100	25	45	55	45	7-1/2	15	25	30	60	60	0	0	CA7-85D-00-*	590
												1	0	CA7-85D-10-*	612
												0	1	CA7-85D-01-*	612
97	130	30	55	55	55	10	20	30	30	75	75	0	0	CA7-97D-00-*	757
												1	0	CA7-97D-10-*	779
												0	1	CA7-97D-01-*	779



CA7-60D Contactor

Description:

Contactors with two winding DC coils have very low hold-in values and share the same dimensions with AC contactors. See page A57 for more information. See page A84 for dimensional information.

Non-Reversing, Four Pole Contactors With Two Winding DC Coil, Series CA7 (Open type only) ①

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Contact Configuration Main Pole		Auxiliary Contacts per Contactor		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)											
		AC-3	AC-1	230V	415V/400V	500V	690V	1 Ø		3 Ø							
115V	230V							200V	230V	460V	575V	NO	NC	NO	NC	Catalog Number	Price
85	130	25	45	55	45	7-1/2	15	25	30	60	50	4	0	0	0	CA7-90D-M40-*	781
85	130	25	45	55	18.5	7-1/2	15	25	30	50	20	2	2	0	0	CA7-90D-M22-*	781

Coil Codes ②③④

DC Coil Code	Voltage
24DD	24V
110DD	110V

Ordering Instructions

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

- ① CA7-60D...CA7-97D have an internal auxiliary contact to transition from the start winding to the run winding.
- ② Coils include an integrated diode surge suppressor.
- ③ Other coil voltages are available, see page A57. Contact your Sprecher + Schuh Sales Representative to determine which coil voltages may be stocked. *Non-standard coil voltages (non-stock) must be ordered and installed separately as renewal parts.*
- ④ The coil codes shown are the most commonly stocked items. Contact your Sprecher + Schuh representative to determine if other voltages, i.e., 12DD, 48DD, 220DD are on-hand or can be specially ordered in quantities.

Reversing, Three Pole Contactors With AC Coil, Series CAU7 (Open type only)

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor		Open Type	Catalog Number	Price
		kW (50 Hz)				UL/CSA HP (60 Hz)										
		AC-3	AC-1	230V	400V	500V	690V	1 Ø		3 Ø						
415V	115V				230V			200V	230V	460V	575V					
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	1	1	CAU7-9-22-*	338	
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	1	1	CAU7-12-22-*	409	
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	1	1	CAU7-16-22-*	451	
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	1	1	CAU7-23-22-*	491	
30	65	10	15	15	15	2	5	7-1/2	10	20	25	0	1	CAU7-30-02-*	553	
												1 ④	1	CAU7-30-22-*	597	
37	65	11	18.5/20	20	8.5	3	5	10	10	25	30	0	1	CAU7-37-02-*	640	
												1 ④	1	CAU7-37-22-*	684	
43	85	13	22	25	22	3	7-1/2	10	15	30	30	0	1	CAU7-43-02-*	710	
												1 ④	1	CAU7-43-22-*	754	
55	85	15	30	30	22	5	10	15	20	40	40	0	1	CAU7-55-02-*	797	
												1 ④	1	CAU7-55-22-*	841	
60	100	18.5	32	37	32	5	10	15	20	40	50	0	1	CAU7-60-02-*	895	
												1 ④	1	CAU7-60-22-*	939	
72	100	22	40	45	40	5	15	20	25	50	60	0	1	CAU7-72-02-*	1010	
												1 ④	1	CAU7-72-22-*	1054	
85	100	25	45	55	45	7-1/2	15	25	30	60	60	0	1	CAU7-85-02-*	1125	
												1 ④	1	CAU7-85-22-*	1169	
97	130	30	55	55	55	10	20	30	30	75	75	0	1	CAU7-97-02-*	1410	
												1 ④	1	CAU7-97-22-*	1454	



CAU7-9-22-120 reversing contactor



CAU7-43-22-120 reversing contactor

Includes:

- Line side coil terminations
- Mechanical and electrical Interlock ③
- Reversing power wiring ① (using Power Wiring Kit Cat.# CAUT7-PW...)
- Control wiring available; see footnote ②

Coil Codes ⑤

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V - 240V
240	220V	240V
277	240V	277V
380	380V-400V	440V
480	440V	480V
600	550V	600V

Ordering Instructions

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

- ① For Reversing Contactors *without* power wiring add suffix "-LW" to catalog number and deduct the following amount:
 CAU7-9...23 deduct \$10
 CAU7-30...37 deduct \$12
 CAU7-43 deduct \$22
 CAU7-60...97 without power wiring not available
 Ex: CAU7-9-22-* becomes CAU7-9-22-***-LW**.
- ② For control wiring, add suffix **-CW** to catalog number and add \$20.
 Example: CAU7-9-22-* becomes CAU7-9-22-***-CW**.
- ③ The NC auxiliary contacts are supplied as part of the mechanical interlock (Cat.# CM7-02) and are used to electrically interlock the contactors.
- ④ The NO auxiliary contacts supplied are side mounted. Top mount NO auxiliary contacts must be special ordered. Contact your Sprecher+Schuh representative.
- ⑤ Other voltages available, see page A56. *Nonstandard coil voltages not listed here must be ordered and installed separately as renewal parts.*

Reversing, Three Pole Contactors With Electronic DC Coil, Series CAU7 (Open type only) ⑤⑥

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V	500V	690V	1 Ø		3 Ø					
415V	115V				230V			200V	230V	460V	575V				
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2	1	1	CAU7-9E-22-*	484
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	1	1	CAU7-12E-22-*	597
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	1	1	CAU7-16E-22-*	629
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	1	1	CAU7-23E-22-*	679
30	65	10	15	15	15	2	5	7-1/2	10	20	25	0	1	CAU7-30E-02-*	780
												1 ④	1	CAU7-30E-22-*	820
37	65	11	18.5/20	20	8.5	3	5	10	10	25	30	0	1	CAU7-37E-02-*	971
												1 ④	1	CAU7-37E-22-*	1018
43	85	13	22	25	22	3	7-1/2	10	15	30	30	0	1	CAU7-43E-02-*	1050
												1 ④	1	CAU7-43E-22-*	1090
55	85	15	30	30	22	5	10	15	20	40	40	0	1	CAU7-55E-02-*	1070
												1 ④	1	CAU7-55E-22-*	1110



CAU7-9E-22-24E Reversing contactor



CAU7-37E-22-24E Reversing contactor

Description

Low Consumption Electronic DC coils have extremely low inrush which allows the use of smaller power supplies. CA7-9E...43E have internal surge suppression. See page A68 for more information.

This new design results in:

- Lighter, lower depth
- More energy efficient contactors
- Easier wiring
- Uniform panel appearance

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 of 1.7 allows direct control through PLC's without the need for interposing relays. Power dissipation is greatly reduced limiting the heat effect in control panels.

Includes:

- Line side coil terminations
- Mechanical and electrical Interlock ③
- Reversing power wiring ① (using Power Wiring Kit Cat.# CAU7-PW...)
- Control wiring available; see footnote ②
- CAU7-9E...43E has internal surge suppression.

Coil Codes ⑥⑦

DC Coil Codes	Voltage
12E	12V
24E	24V
48E ③	48-72V
110E ③	110-125V
220E ③	220-250V

① For Reversing Contactors *without* power wiring add suffix “-LW” to catalog number and deduct the following amount:

CAU7-9E...23E deduct \$10

CAU7-30E...37E deduct \$12

Ex: CAU7-9E-22-24E becomes CAU7-9E-22-24E-LW.

② For control wiring, add suffix -CW to catalog number and add \$20.

Example: CAU7-9E-22-24E becomes CAU7-9E-22-24E-CW.

③ The NC auxiliary contacts are supplied as part of the mechanical interlock (Cat.# CM7-02) and are used to electrically interlock the contactors.

④ The NO auxiliary contacts supplied are side mounted. Top mount NO auxiliary contacts must be special ordered. Contact your Sprecher+Schuh representative.

⑤ CA7-9E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils.

⑥ See pages A47 for limitations, on adding auxiliaries to Electronic DC Coil contacts.

⑦ Voltages of 48V DC and greater are supplied with backpack module standard. See page A85.

⑧ Not applicable with Electronic Timer accessories (CRZ_7).

Reversing, Three Pole Contactors With DC Coil, Series CAU7 (Open type only)

I _e [A]		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Auxiliary Contacts per Contactor		Open Type	
		kW (50 Hz)				UL/CSA HP (60 Hz)									
		AC-3	AC-1	230V	400V	500V	690V	1 Ø		3 Ø					
415V	115V				230V			200V	230V	460V	575V				
60	100	18.5	32	37	32	5	10	15	20	40	50	0	1	CAU7-60D-02-*	1115
												1	1	CAU7-60D-22-*	1159
72	100	22	40	45	40	5	15	20	25	50	60	0	1	CAU7-72D-02-*	1240
												1	1	CAU7-72D-22-*	1284
85	100	25	45	55	45	7-1/2	15	25	30	60	60	0	1	CAU7-85D-02-*	1360
												1	1	CAU7-85D-22-*	1410
97	130	30	55	55	55	10	20	30	30	75	75	0	1	CAU7-97D-02-*	1745
												1	1	CAU7-97D-22-*	1789



CAU7-85D Reversing (Typical)

NOTE: DC and AC coils are not interchangeable. CA7-60D...97D contactors have a two winding, 3-lead coil with built-in late break auxiliary contact and coil suppression. Refer to dimensions starting on page A86.

Includes:

- DC operating mechanism
- Line side coil terminations
- Mechanical and electrical Interlock ②
- Reversing power wiring
- Control wiring available; see footnote ①

Coil Codes ④⑤

DC Coil Code	Voltage
12DD	12V
24DD	24V
48DD	48V
110DD	110V
220DD	220V

Ordering Instructions

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

- ① For control wiring, add suffix **-CW** to catalog number and add \$20. Example: CAU7-60D-22-* becomes CAU7-60D-22-***-CW**.
- ② The NC auxiliary contacts are supplied as part of the mechanical interlock (Cat.# CM7-02) and are used to electrically interlock the contactors.
- ③ The NO auxiliary contacts supplied are side mounted. Top mount NO auxiliary contacts must be special ordered. Contact your Sprecher+Schuh representative.
- ④ Other voltages available, see page A57. *Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.*
- ⑤ Coils for CAU7-60D...97D reversing contactors include an integrated diode surge suppressor.