

Top (Front) Mount Auxiliary Contact Blocks •

Contact Block	Description	NO	NC	Contact Arrangement	For use with	Standard Contacts Catalog Number	Bifurcated Contacts Catalog Number @	
### 599782H3 #\$		0	2	51 61 	CA7 all	CS7-PV-02	CS7-PVB-02	
			0	2	11 21 7 7 7 7 7 7 7 7 7	CA7-3097- * -00	CA7-PV-02	CA7-PVB-02
20 0 33 WC 45 WO 55 WO	Auxiliary Contact Blocks for			53 [61 	CA7 all	CS7-PV-11	CS7-PVB-11	
PN-522 22_40 32 NO 44 NO 54 NO	Top Mounting - • 2 and 4 pole	1	1	13 21	CA7-3097- * -00	CA7-PV-11	CA7-PVB-11	
Top mount auxiliary contact blocks snap-on to the top (front) of any CA7 contactor	Snap on design - mounts without tools Electronic compatible			23 31 	CA7-923- * -10 CA7-923- * -01	CA7-PV-S11	CA7-PVB-S11	
	contacts • Mutual positive guidance	2	0	53 63 54 64	CA7 all	CS7-PV-20	CS7-PVB-20	
	to the main contactor poles (excluding L types) • Several terminal numbering choices even for models wit equal function • Late break/early make (L) available		U	13 23	CA7-3097- * -00	CA7-PV-20	CA7-PVB-20	
		1EM	1LB	$ \begin{array}{c c} & 17 \\ 87 \\ \hline & 18 \\ \hline & 26 \\ \hline & 26 \\ \hline & 98 \end{array} $	CA7-3097- * -00	CA7-PV-L11	NOT AVAILABLE	
00 21 00 31 00 43 00 535524**		1	3	53 61 71 81 54 62 72 82	CA7-3097- * -00	NOT AVAILABLE	CA7-PVB-13	
PV-22 NO 22 NC 32 NC 44 NO	Bifurcated Contacts Bifurcated auxiliary			53 61 71 83 54 62 72 84	CA7 all	CS7-PV-22	CS7-PVB-22	
4-pole auxiliary	contacts provides a higher degree of reliability than the standard cross-stamped	2	2 2	2	13 21 31 43	CA7-3097- * -00	CA7-PV-22	CA7-PVB-22
	auxiliary contacts because it H-bridge divides each movable contact into two			22 32 44 54	CA7-923- * -10 CA7-923- * -01	CA7-PV-S22	CA7-PVB-S22	
	sections at the tip of the spanner. Typical application is low-voltage low-current	3	1	53 61 73 83 54 62 74 84	CA7 all	CS7-PV-31	CS7-PVB-31	
Estation -	applications (i.e.: PLC). Cross-stamped contacts	3	ı	22 34 44 54	CA7-923- * -10 CA7-923- * -01	CA7-PV-S31	CA7-PVB-S31	
2-pole auxiliary contact block (typical)	are good for a minimum of 5mA at 17v while bifurcated contacts are good for a	1	3	53 61 71 81 54 62 72 82	CA7 all	CS7-PV-13	CS7-PVB-13	
	minimum of 3mA at 5v.	4	0	53 63 73 83 54 64 74 84	CA7 all	CS7-PV-40	CS7-PVB-40	
		0	4	52 62 72 82	CA7 all	CS7-PV-04	CS7-PVB-04	
		1+1EM	1+1LB	53 61 75 87 54 62 76 88	CA7 all	CS7-PV-L22	NOT AVAILABLE	

- Max. number of auxiliary contacts that may be mounted:
 - AC Coil and Electronic DC Coil contactors max. 4 N.O. contacts on the front of the contactor, 2-N.O. contacts on the side, 4-N.C. front or side: 6 total.
 - True DC Coil contactors max. 4 N.O. contacts on the front of the contactor, or max. 2-N.O. contacts on side, 4-N.C. front or side: 4 total.
- 2 Detailed ratings can be found on page A75.



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Side Mount Auxiliary Contact Blocks (1 & 2 Pole) •

Contact Block	Description	NO	NC	Contact Arrangement	For use with	Catalog Number ⊙
	Auxiliary Contact Blocks for Side	0	1	21 de la companya de	CA7 all	CA7-PA-01
PA-01	Mounting - 1 and 2-pole Two way numbering for right or left	1	0	13 77 14 87	CA7 all 2	CA7-PA-10
1-pole (typical)	• Two way numbering for right or left mounting on the contactor • Snap-on design - mounts without tools	0	2	$ \begin{array}{c c} & \frac{11}{2\tau} & \frac{21}{2\varepsilon} \\ & \frac{12}{1\tau} & \frac{22}{1\varepsilon} \end{array} $	CA7 all	CA7-PA-02
24V, 20mA • Late break / early make (L) available • Mutual positive guidance to the main	1	1	$ \begin{array}{c c} & \frac{13}{t^{2}} & \frac{21}{t^{2}} \\ \hline & \frac{14}{\epsilon^{2}} & \frac{22}{\epsilon^{2}} \end{array} $	CA7 all ⊘	CA7-PA-11	
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	contactor period (excitating 2 types)	2	0	$ \begin{array}{c c} & \frac{13}{t} & \frac{23}{t} \\ \hline & \frac{14}{\epsilon t} & \frac{24}{\epsilon \epsilon} \end{array} $	CA7 all ❷	CA7-PA-20
2-pole (typical)		1EM	1LB	\[\left\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CA7 all	CA7-PA-L11

- Max. number of auxiliary contacts that may be mounted:
 - AC Coil contactors max. 4 N.O. contacts on the front of the contactor, 2-N.O. contacts on the side, 4-N.C. front or side: 6 total.
 - DC Coil contactors max. 4 N.O. contacts on the front of the contactor, or max. 2-N.O. contacts on side, 4-N.C. front or side: (4) total.
- Left mounting only is recommended when using with CA7-9...CA7-23 contactors. These contactors have built-in auxiliaries, which will result in duplicate terminal markings if mounted on the right.
- 3 Detailed ratings can be found on page A75.



Control Modules 1

Module	Description	For use with	Connection Diagrams	Function	Catalog Number
500 = 5.6	Pneumatic Timing Module — The contacts in the Pneumatic Timing Element switch after the delay time. The contacts on the	CA7 with AC or 24V DC electronic coil	67 55 68 56	ON-Delay 0.330s 1.8180s	CZE7-30 CZE7-180
(E5730) (4 No	main contactor continue to operate without delay. • Continuous adjustment range	CA7 all	65 58 58	OFF-Delay 0.330s 1.8180s	CZA7-30 CZA7-180
CRZE7	Electronic Timing Module – ❷ ON-Delay	CA7 with 110240V, 50/60Hz or 110250V DC	SH A1 K1M A2	110240V 50/60Hz 110250V DC 0.13s 130s 10180s	CRZE7-3-110/240 CRZE7-30-110/240 CRZE7-180-110/240
A	The contactor is energized at the end of the delay time.	CA7 with 2448V DC	A1 A1 (K1M)	2448V DC 0.13s 130s 10180s	CRZE7-3-24/48VDC CRZE7-30-24/48VDC CRZE7-180-24/48VDC
0.00 mm m	Electronic Timing Module — ② OFF-Delay After interruption of the control signal, the contactor is de-energized at the end of the delay time.	CA7- 937 with 110240V, 50/60Hz	SI- B2 A1	110240V 50/60Hz 0.33s 130s 10180s	CRZA7-3-110/240 CRZA7-30-110/240 CRZA7-180-110/240
nn		CA7-937 with 24V, 50/60Hz	K1M A2 N N N N N N N N N N N N N N N N N N	24V AC 50/60Hz 0.33s 130s 10180s	CRZA7-3-24VAC CRZA7-30-24VAC CRZA7-180-24VAC
00 - 21220	Electronic Timing Module — ② Wye-Delta Transition Timer Contactor K3 (Y) is de-energized and contactor K2 (D) is energized after the end of the set transition time. Switching delay at 50ms. Continuous adjustment range High repeat accuracy	CA7 with 110240V, 50/60Hz	S	110240V 50/60Hz 130s	CRZY7-30-110/240
CM7 CM7-02	Mechanical/Electrical Interlocks – • Common to all CA7 contactors; • interlocks different contactor sizes		>	Mechanical Without auxiliaries	см7
	Mechanical and electrical interlocking possible in one module by means of integrated auxiliary contacts Dovetail (CA7-S9) connector included (9mm)	CA7 all •	21 21 	Mechanical/ Electrical Two NC aux contacts	CM7-02

- Not for use with CA7-40 or CA7-90 (4-pole) contactors.
 Not available for use on CA7-9E...55E coil voltage 48V...220V.



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Control Modules (continued)

Module	Description	For use with	Connection Diagrams	Catalog Number
12 12 12 12 12 12 12 12 12 12 12 12 12 1	Mechanical Latch — Following contactor latching, the contactor coil is immediately de-energized by the NC auxiliary contact (65-66). • Electrical or manual release • 1 NO + 1 NC auxiliary switch • Suitable for all CA7 contactors	All CA7 😉	1 57 65 K1M 13 K1R 58 66 14 E1 K1M A2 K1R E2	CV7-11-* Replace * with coil code below (See Application Note below)

CV7 Mechanical Latch Coil Codes 0200

Coil	А	pplication Range	!	Latch & Contactor Coil
Code	50 Hz	60 Hz	VDC	Rating
24Z	24 VAC	24 VAC	12 VDC	24V 50/60 Hz
48Z	48 VAC	48 VAC	24 VDC	48V 50/60 Hz
110	100 VAC	110 VAC	48 or 60VDC	110V50/110V60
120	110 VAC	120 VAC	~	110V50/120V60
220W	?	208240 VAC	~	208240V60
230Z	230 VAC	230 VAC	110 VDC	230V 50/60 Hz
240Z	240 VAC	240 VAC	125 VDC	240V 50/60 Hz
277	240 VAC	277 VAC	~	240V50/277V60
380	380400 VAC	440 VAC	~	380400V50/440V60
400Z	400 VAC	400 VAC	220 VDC	400V 50/60 Hz
415	400415 VAC	~	~	400415 V50 Hz
480	440 VAC	480 VAC	~	440V50/480V60
600 ③	550 VAC	600 VAC	~	550V50/600V60

APPLICATION NOTE:

The CV7 Mechanical Latch for CA7 may be used for both AC and DC applications; however when using DC control circuit the user must apply the following rules for coil selection of the contactor and latch combination:

- The CA7-9E...55E contactor uses an electronic DC coil and the CV7 latch coil code should be chosen from the table on the left. (i.e.: 24V DC control circuit select CA7-9E...55E with code 24E and CV7 latch uses a 48Z AC coil code).
- When DC control circuits are required use CA7-60D...97D contactors with standard two winding DC coil and the CV7 latch with AC coil selected from the table, top left. (i.e.: 125V DC control circuit should use 125DD coil code in the contactor and 240Z AC coil code in the CV7 latch).

- Other voltages available. Contact your Sprecher + Schuh representative.
- 2 CV7 must be wired for momentary operation only.
- 3 Use 600V AC when 575 V is required.
- 4 Command duration 0.03...10 seconds.

- Goil operating limits on CV7-11 match those of the contactor it is being used with.
- 6 Not for use with CA7-90 (4-pole) contactors.

Control Modules (continued)

Module	Description	For use with	Connection Diagrams	Func	ction	Catalog Nu	ımber
	Electronic Interface — Interface between the DC control signal from a PLC and the AC operating mechanism of the contactor. • Requires no additional surge suppression for the coils • Suitable for all CA7 contactors ❷	CA7 all (with AC control)	A1 E2 E1	24V DC	Output 110 240V AC	CRI7E-24 CRI7E-12 CRI7E-48 Gray is spec	ial order
	Surge Suppressors - Limits coil switching transients.	CA7 all (with AC control)	-[RC Modul AC Contro (50/60Hz) 244 110	8V 280V	CRC7-48 CRC7-280 CRC7-480	
		CA7-9C43C (with convention- al DC control)	-[Diode Mo DC Contro 12-25	I	CRD7-250	8
	Plug-in, coil mounted Suitable for all CA7 contactors			Varistor N AC/DC Co			
		CA7 all (with AC control)	ָרָי <u>ר</u> ָי	125 127	55VAC/ 7VDC	CRV7-55	©
		CA7-9C43C (with convention-			36VAC/ 80VDC	CRV7-136	③
		al DC control)			277VAC/ 350VDC	CRV7-277	③
				278	575VAC	CRV7-575	8



Minimum actuation current is 5 volts, 2ma. The leakage current is <1MA for the following:</p>

- CRI7E-12 @ 2.5 VDC input
- CRI7E-24 @5 VDC input
- CRI7E-48 @ 10 VDC input.
- Electronic DC Contactors (CA7-9E...55E) include internal surge protection and do not require additional external surge protection.



AC Voltage Sag Immunity Modules

		Full-Wave E		
Module	Description	Module Input	Module Output	Catalog Number
modulo	Dooripaon	Control circuit voltage range	For use with CA7-6097 contactors with DC coil	Outuing Humber
	SEMI-F47-Module	24-250 VAC	24-250 VDC 	CA7-SF47
9 9 9 9	Semi-F47-Module with 130s on-delay timer	110-250 VAC	110-250 VDC ●	CA7-SF47A30

Sprecher + Schuh's CA7-SF47 module meets the Semi-F47 AC voltage sag immunity requirements to 50% voltage sag for 200 ms. Voltage sags can affect the readiness and operation of contactors and starters, resulting in shut downs, lost production, and diminished revenue. It is essential for process equipment to be compatible with its electrical environment. The CA7-SF47 voltage sag immunity module is an essential component to achieve equipment reliability during voltage sag events.

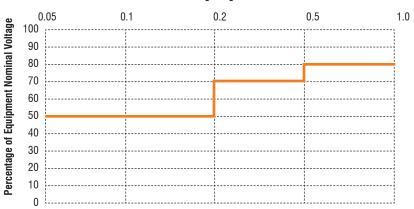
Product Features

- · Meets Semi-F47 standard requirements
- For use with CA7-60...97 contactors with DC coils.
 A full-wave bridge rectifier internal to the CA7-SF47 module provides AC to DC coil voltage rectification.
- · Suitable for contactor range (with screw terminals)
 - CA7-60...97, 3-Pole contactors
 - CA7-90, 4-Pole contactor
- Optional 1 to 30 seconds On-Delay timer function.

Benefits

- Direct mounting to the coil terminals of the CA7 contactors. Only 24 mm is added to the component height.
- Direct electrical connection to the contactor. Customer coil power connections are made at the terminals of the CA7-SF47 module
- The CA7-SF47A30 module includes a 1 to 30 seconds adjustable On-Delay timer in addition to the voltage sag immunity functionality. Two independent functions in a single module.

Duration of Voltage Sag in Seconds



	VOLTAGE S	AG DURATION		VOLTAGE SAG
Seconds	Milliseconds	Cycles at 60 hz	Cycles at 50 hz	Percent (%) of Equipment Nominal Voltage
< 0.05 s	< 50 ms	< 3 cycles	< 2.5 cycles	Not specified
0.05 to 0.2 s	50 to 200 ms	3 to 12 cycles	2.5 to 10 cycles	50%
0.2 to 0.5 s	200 to 500 ms	12 to 30 cycles	10 to 25 cycles	70%
0.5 to 1.0 s	500 to 1000 ms	30 to 60 cycles	25 to 50 cycles	80%
> 1.0 s	> 1000 ms	> 60 cycles	> 50 cycles	Not specified

Input AC control circuit voltage must be matched when selecting the contactor/relay DC coil voltage.

CA7 Contactor Terminal Lug Kits

Terminal Lug Kits •

				ximum Resis ent Ratings (
Component	Description	For use with	IEC (40°C)	IEC (60°C)	UL/CSA (40°C)	Pkg. Qty.	Catalog Number ①
used with the contactor all for wye-delta, reversi and multispeed contact and starters. Can increa IEC AC-1 current rating well as the UL/CSA cor ous current (resistive) rof the contactor. Three	3 Pole Lug Kit — Allows larger wires to be used with the contactor. Ide- al for wye-delta, reversing and multispeed contactors and starters. Can increase IEC AC-1 current rating, as	CA7-923 -line side -load side	45	45	40	1	CA7-P-KN23 CA7-P-KL23
	well as the UL/CSA continu- ous current (resistive) rating of the contactor. Three pole kit used for smaller	CA7-3037	60	55	55	1	CA7-P-K37
used with the contactor Ideal for wye-delta, reversing and multispeed contactors and starter increase AC-1 current of the contactor. One p	Allows larger wires to be used with the contactor. Ideal for wye-delta, re-	CA7-4355	90	75	75	3 😵	CA7-P-K43
	contactors and starters. Can increase AC-1 current rating of the contactor. One pole kit used for larger contactors.	CA7-6097	130	130	130	3 ⊗	CA7-P-K85

Paralleling Links 00

				ximum Resis ent Ratings (
Component	Description	For use with	IEC (40°C)	IEC (60°C)	UL/CSA (40°C)	Pkg. Qty.	Catalog Number ①
3 Pole Paralleling Link – Allows smaller CA7 contactors to be used on single-phase resistive	CA7-923	100	100	100	2 ❸	CA7-P-B23	
	applications. By paralleling the three power poles, the contacts see only a portion of the actual load.	CA7-3037	150	135	150	2 😵	CA7-P-B37

Quick Connectors

Component	Description	For use with	Pkg. Qty.	Catalog Number
50	Stab Connectors - Dual stab (0.250 inch)	CA7-997 coil term. CA7-923 power term. CA7 accessories	20 100 100	CA7-SC2 CA7-SC10 CA4-SC11

- cULus Approved (File E33916).
- Lighting applications are not considered purely resistive loads. Therefore, the IEC and UL/CSA resistive ratings listed here do not apply to lighting loads. Lighting contactor ratings are provided in the Technical Information section.
- Must be ordered in multiples of package quantity. For example on CA7-P-K43, order minimum quantity of 3 for one package of 3 pieces. Price is per piece.
- Engineering practice permits 2.5 x le to be applied to a contactor when 3 poles are connected in parallel for single phase discharge lamp (ballast lighting) applications.



Reversing Components

Component	Description	For Use With	Catalog Number	Pkg. Qty.
	Dovetail Connectors – Connects multiple contactor and starter assemblies together.	CA7 all	CA7-S9	10
(Reversing Power Wiring Kit - • Provides a solid "wireless" connection	CA7-912 CA7-1623	CAUT7-PW23	1
1-11-1-12	for reversing applications. May be used with both solid state and thermal O/L relays.	CA7-3037 CA7-4355 CA7-6097	CAUT7-PW37 CAUT7-PW55 CAUT7-PW85	1 1 1

Reversing Power Wiring Kits

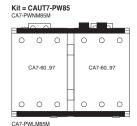
Only the kits are catalog items. Single components are available by special order in bulk packages of 20 pieces.

Reversing Starter Connection Kits @









Assembly Components

Component	Description	For Use With	Catalog Number	Pkg. Qty.
	Protective Covers - Protects against unintended manual operation.	CA7 all	CA7-SCC	1
800	Protective Covers - For front mounted auxiliary contacts, pneumatic timers and latches.	CS7-PV, CA7-PV, CZE7, CZA7, CV7	CA7-SCF	1
	DIN-rail - 2 meter lengths (6' 6"); price per rail Top Hat, low profile Top Hat, high profile	CA7 all	3F 3AF	20 10

Marking Systems

Component	Description	Catalog Number	Pkg. Qty.
132	Label Sheet – 1 sheet with 105 self-adhesive paper labels, each 6 x 17mm	CA7-FMS	1
	Marking Tag Sheet - 1 sheet with 160 perforated paper labels each, 6 x 17mm. To be used with transparent cover.	CA7-FMP	1
84	Transparent Cover - To be used with Marking Tag Sheets.	CA7-FMC	100 2
	Tag Carrier - For marking with marker cards and tags. See page N35 for complete listing of available cards and tabs.	CA7-FMA2	100

• cULus Approved (File E33916).

● Minimum quantity is one package of 100. Price is each x 100 = package price.



Wye-Delta Starter Kits 0

Wye-Delta power wiring kits were designed to aid in the field assembly of open-transition wye-delta starters that use CA7 contactors. These kits include line, load and start-point (shorting) connections. Assembling a wye-delta starter requires the use of the following components:

- · Contactors and overload relay
- Mechanical / Electrical Interlock (Cat.No: CM7-02)
- Electronic Wye-delta Timer (Cat. No: CRZY7-30-110/240)
- Dovetail Connector to couple 1M and 2M contactor (Cat. No: CA7-S9); optional



Power Jumper Connection



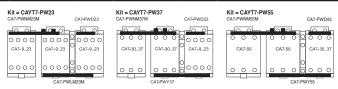
Shorting Bar

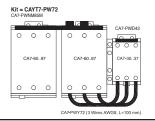


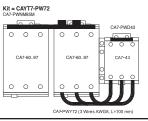
Reversing Power Connection

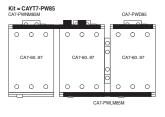
Three Contactor Assembly Components

For 3 contactor	3-Phase Rating										
assembly @	ımber	catalog nu	Use with	HP (60Hz)							
]	Wye	Delta								380V	
Catalog Number	18	2M	1M	575V	460V	230V	200V	690V	500V	415V	230V
	CA7-9	CA7-9	CA7-9	10	10	5	5	8	8	8	5.5
CAYT7-PW23	CA7-9	CA7-12	CA7-12	15	15	7.5	5	11	11	11	7.5
GATIT-PWZ3	CA7-12	CA7-16	CA7-16	20	20	10	7.5	14	15	14	10
	CA7-12	CA7-23	CA7-23	25	25	10	7.5	19	21	21	14
CAYT7-PW37	CA7-16	CA7-30	CA7-30	30	30	15	10	28	28	28	18
GATIT-PWST	CA7-23	CA7-37	CA7-37	40	40	20	15	32	35	35	19
CAYT7-PW55	CA7-30	CA7-43	CA7-43	50	50	25	20	41	40	40	23
GATIT-PW33	CA7-37	CA7-55	CA7-55	60	60	30	25	45	45	45	30
CAYT7-PW72	CA7-37	CA7-60	CA7-60	75	75	40	30	56	60	58	33
UNITI-FWIZ	CA7-43	CA7-72	CA7-72	100	100	50	40	70	67	69	39
CAYT7-PW85	CA7-60	CA7-85	CA7-85	125	125	60	50	81	82	82	47
GATIT-FW00	CA7-60	CA7-97	CA7-97	125	125	60	50	90	90	90	50



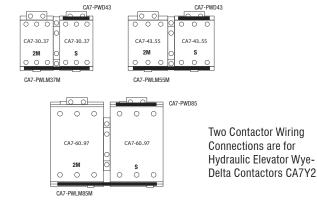






Two Contactor Assembly Components

	Load Side Power	When Connecting			
Shorting Bar	Connection	Wye	Delta		
Catalog Number	Catalog Number	18	2M		
	CA7-PWLM37M	CA7-30	CA7-30		
CA7-PWD43	GA7-F WEING/IN	CA7-37	CA7-37		
GA7-FWD43	CA7-PWLM55M	CA7-43	CA7-43		
	GA7-F WEINISSIN	CA7-55	CA7-55		
		CA7-60	CA7-60		
CA7-PWD85	CA7-PWLM85M	CA7-72	CA7-72		
CM1-L MD00	GA7-F WEIWIOJW	CA7-85	CA7-85		
		CA7-97	CA7-97		



- cULus Approved (File E33916).
- Individual parts of kits are available for unique applications by special order. Contact your Sprecher + Schuh Representative.

Renewal Coils - A.C. •

					For u	se with contactor	·	
				CA7-916	CA7-2337	CA7-4355	CA7-6085	CA7-97
AC Control Voltages			AC	CA7-9-M16- M	CA7-23-M37- M	~	~	CA7-90-M
			Coil	CAQ7-16	CAQ7-37	~	~	~
			Codes	CNX-205206	CNX-207209	CNX-212	CNX-218	~
				CAN7-1216	CAN7-37	CA7-40-M, CAN7-43	CAN7-85	~
				~	CAL(V)7-20-M40	CAL(V)7-30-M40	~	CAL(V)7-60-M40
50 Hz	60 Hz	50/60 Hz		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
				CA7-	CA7-	CA7-	CA7-	CA7-
~	~	24V	24Z	TA855	TC855	TD855	TE855	TF855
32V	36V	~	36	~	~	~	TE481	~
48V	~		48A	~	TC414	TD414	~	~
110V	120V	~	120	TA473	TC473	TD473	TE473	TF473
115V	127V	~	127	TA424	TC424	~	~	~
200220V	208 240V	~	220W	TA296	TC296	TD296	TE296	TF296
~	~	230V	230Z	TA851	TC851	TD851	TE851	TF851
240V	277V	~	277	TA480	TC480	TD480	TE480	TF480
400415V	~	~	415	TA457	TC457	TD457	TE457	TF457
440V	480V	~	480	TA475	TC475	TD475	TE475	TF475
550V	600V	~	600	TA476	TC476	TD476	TE476	TF476



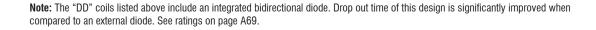
CA7 AC Coil (typical)

• AC Codes in bold letters and shaded indicate coils that are standard stocked items.



Renewal Coils - D.C. •

		Ele	ctronic DC Rep	lacement Coils	4	Two Win Replacen	
			For use with	For use with contactor			
DC Control Voltages	DC Coil Codes	CA7-9E-M CA7-23E37E CA 16E-M CA7-23E-M CA		CA7-43E55E CA7-40E-M CAN7-43E (Series A)	CA7-43E55E CA7-40E-M CAN7-43E (Series B) CA7-60D85 CNX7-218 CAN7-85I		CA7-97D ❸ CA7-90D-M
		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
		CA7-	CA7-	CA7-	CA7-	CA7-	CA7-
12V Electronic	12E	TC708E	TC708E	~	TD708E2 ~		~
24V Electronic	24E	TC714E	TC714E	~	TD714E2	~	~
24V Diode 2	24DD	~	~	~	~	TE714M	TF714M
36-48V Elec	36E	TC719E	TC719E	~	TD719E2	TD719E2 ~	
48-72V Elec	48E	TC724E	TC724E	~	TD724E2	~	~
64V Diode	64DD	~	~	~	~	~	TF727M
72V Diode	72DD	~	~	~	~	TE728M	TF728M
110-125V Elec	110E	TC733E	TC733E	~	TD733E2	~	~
110V Diode	110DD	~	~	~	~	TE733M	TF733M
220-250V Elec	220E	TC747E	TC747E	~	TD747E2	~	~





12V & 24V Electronic DC coil



36V...220V Electronic DC coil with Back Pack



Two Winding DC coil (typical) 3

- DC Codes in bold letters and shaded indicate coils that are standard stocked items.
- ❷ Voltage operating range: 0.7...1.25 x Us.
- CA7-60D...97D contactors have a two winding coil with built-in late break auxiliary contact and coil suppression.
- CA7-9E...55E electronic coils are not interchangeable with non-electronic DC or AC coils



Replacement Contactors Cross Reference, Series CA1 to Series CA7 (Open Type Only) •

		Ratings for Switching AC Motors (AC2 / AC3 / AC4)											
I _e [A]		kW (50 Hz)				UI	L/CSA H	IP (60 F	łz)		Series CA1U Obsolete	Series CA7 Equivalent	
			400V			1	Ø		3	Ø		Obsolute	Equivalent
AC-3	AC-1	230V	/ 415V	500V	690V	115V	230V	200V	230V	460V	575V	Catalog Number	Catalog Number
						1	3	5	5	10	10	CA1U-10	
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15		CA7-16-10
						2	3	7-1/2	7-1/2	15	20	CA1U-14	
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15		CA7-23-10
						2	5	7-1/2	10	20	25	CA1U-16	
30	65	10	15	15	15	2	5	7-1/2	10	20	25		CA7-30-10
						3	7-1/2	10	15	30	40	CA1U-25	
43	85	13	22	25	22	3	7-1/2	10	15	30	30		CA7-43-10
72	100	22	40	45	40	5	15	20	25	50	60		CA7-72-10
						5	15	25	25	50	60	CA1U-40	
85	100	25	45	55	45	7-1/2	15	25	30	60	60		CA7-85-10
						7-1/2	20	30	30	60	75	CA1U-55	
97	130	30	55	55	55	10	15	30	30	75	75		CA7-97-10



CA1U-10 Contactor

Replacement Contactors Cross Reference, Series CA3 to Series CA7 (Open Type Only) •

		Ratings for Switching AC Motors (AC2 / AC3 / AC4)										Series CA3	Series CA7
I _e	[A]		kW (50) Hz)			UL/CSA HP (60 Hz)					Obsolete	Equivalent
			400V /			1	Ø		3	Ø		Catalog	Catalog
AC-3	AC-1	230V	415V	500V	690V	115V	230V	200V	230V	460V	575V	Number	Number
								2	2	5	7-1/2	CA3-9-10	
9	32	3	4	4	4	1/2	1 1/2	2	2	5	7-1/2		CA7-9-10
								3	3	7-1/2	10	CA3-12-10	
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10		CA7-12-10
								5	5	10	15	CA3-16-10	
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15		CA7-16-10
								5	5	10	15	CA3-23A-10	
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15		CA7-23-10
								7-1/2	7-1/2	15	20	CA3-23-10	
30	65	10	15	15	15	2	5	7-1/2	10	20	25		CA7-30-10
								10	10	20	25	CA3-30-10	
								10	10	25	30		CA7-37-10
37	65	11	18.5/20	20	18.5	3	5	10	10	25	30	CA3-37	
43	85	13	22	25	22	3	7-1/2	10	15	30	30		CA7-43-10
								10	15	30	40	CA3-43	
								15	20	40	50	CA3-60]
55	85	15	30	30	22	5	10	15	20	40	40		CA7-55-10
60	100	18.5	32	37	32	5	10	15	20	40	50		CA7-60-10
								20	20	50	60	CA3-72	
72	100	22	40	45	40	5	15	20	25	50	60		CA7-72-10
85	100	25	45	55	45	7-1/2	15	25	30	60	60		CA7-85-10
97	130	30	55	55	55	10	15	30	30	75	75		CA7-97-10

CA3-72 Contactor

Available auxiliary contacts may vary. See selection pages for more information.