


















#### Top Mount Auxiliary Contact Blocks (2 & 4 Pole) ①



Contactors

CA7

Contact Block	Description	NO	NC	Contact Arrangement	For use with...	Catalog Number	Price	
 <p>Top mount auxiliary contact blocks snap-on to the top (front) of any CA7 contactor</p>	<p><b>Auxiliary Contact Blocks for Top Mounting – ①</b></p> <ul style="list-style-type: none"> <li>• 2 and 4 pole</li> <li>• Snap-on design - mounts without tools</li> <li>• Electronic compatible contacts down to 17V, 5mA</li> <li>• Mutual positive guidance to the main contactor poles (excluding L-types)</li> <li>• Several terminal numbering choices even for models with equal function</li> <li>• Late break / early make (L) available</li> </ul>	0	2		CA7 all	CS7-PV-02	16	
					CA7-30...85-✱-00	CA7-PV-02	16	
		1	1	1		CA7 all	CS7-PV-11	16
						CA7-30...85-✱-00	CA7-PV-11	16
						CA7-9...23-✱-10 CA7-9...23-✱-01	CA7-PV-S11	16
		2	0	0		CA7 all	CS7-PV-20	16
						CA7-30...85-✱-00	CA7-PV-20	16
		1L	1L	1L		CA7-30...85-✱-00	CA7-PV-L11	22
		2	2	2		CA7 all	CS7-PV-22	32
						CA7-30...85-✱-00	CA7-PV-22	32
	CA7-9...23-✱-10 CA7-9...23-✱-01				CA7-PV-S22	32		
3	1	1		CA7 all	CS7-PV-31	32		
				CA7-9...23-✱-01	CA7-PV-S31	32		
4	0	0		CA7 all	CS7-PV-40	32		
0	4	4		CA7 all	CS7-PV-04	32		
1+1L	1+1L	1+1L		CA7 all	CS7-PV-L22	38		





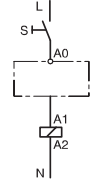


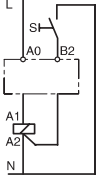

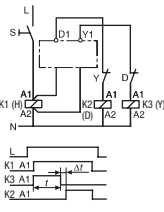


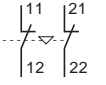
① Up to three auxiliary contact blocks (total of 8-poles) may be mounted on the CA7 contactor. One top mount (max. 4-poles) and one side mount (max. 2-poles) on each side.

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


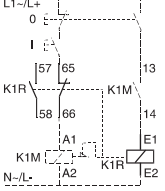
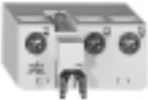
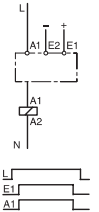

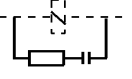
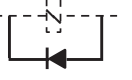
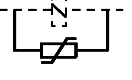
Contact Block	Description	NO	NC	Contact Arrangement	For use with...	Catalog Number	Price
 1-pole (typical)	<p><b>Auxiliary Contact Blocks for Side Mounting – ❶</b></p> <ul style="list-style-type: none"> <li>• 1 and 2-pole</li> <li>• Two way numbering for right or left mounting on the contactor</li> <li>• Snap-on design - mounts without tools</li> <li>• Electronic compatible contacts down to 17V, 5mA</li> <li>• Late break / early make (L) available</li> <li>• Mutual positive guidance to the main contactor poles (excluding L-types)</li> </ul>	0	1		CA7 all	CA7-PA-01	10
		1	0		CA7 all ❷	CA7-PA-10	10
		0	2		CA7 all	CA7-PA-02	16
 2-pole (typical)		1	1		CA7 all ❷	CA7-PA-11	16
		2	0		CA7 all ❷	CA7-PA-20	16
		L1	L1		CA7 all	CA7-PA-L11	22

❶ Up to three auxiliary contact blocks (total of 8-poles) may be mounted on the CA7 contactor. One top mount (max. 4-poles) and one side mount (max. 2-poles) on each side.  
 ❷ 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.

### Control Modules

Module	Description	For use with...	Connection Diagrams	Function	Catalog Number	Price
	<b>Pneumatic Timing Module –</b> The contacts in the Pneumatic Timing Element switch after the delay time. The contacts on the main contactor continue to operate without delay. <ul style="list-style-type: none"> <li>Continuous adjustment range</li> </ul>	CA7 all		<b>ON-Delay</b> 0.3...30s 1.8...180s	<b>CZE7-30</b> <b>CZE7-180</b>	96
		CA7 all		<b>OFF-Delay</b> 0.3...30s 1.8...180s	<b>CZA7-30</b> <b>CZA7-180</b>	96
	<b>Electronic Timing Module – ON-Delay</b> The contactor is energized at the end of the delay time.	CA7 all		110...240V 50/60Hz 110...250VDC 0.1...3s 1...30s 10...180s	<b>CRZE7-3-110/240</b> <b>CRZE7-30-110/240</b> <b>CRZE7-180-110/240</b>	60
				24...48VDC 0.1...3s 1...30s 10...180s	<b>CRZE7-3-24/48VDC</b> <b>CRZE7-30-24/48VDC</b> <b>CRZE7-180-24/48VDC</b>	60
	<b>Electronic Timing Module – OFF-Delay</b> After interruption of the control signal, the contactor is de-energized at the end of the delay time.	CA7 all		110...240V 50/60Hz 0.3...3s 1...30s 10...180s	<b>CRZA7-3</b> <b>CRZA7-30</b> <b>CRZA7-180</b>	68
	<b>Electronic Timing Module – Wye-Delta Transition Timer</b> Contactor K3 (Y) is de-energized and contactor K2 (D) is energized after the end of the set transition time. Switching delay at 90ms. <ul style="list-style-type: none"> <li>Continuous adjustment range</li> <li>High repeat accuracy</li> </ul>	CA7 all		110...240V 50/60Hz 1...30s	<b>CRZY7-30</b>	68
	<b>Mechanical/Electrical Interlocks –</b> <ul style="list-style-type: none"> <li>Common to all CA7 contactors; interlocks different contactor sizes</li> <li>Mechanical and electrical interlocking possible in one module by means of integrated auxiliary contacts</li> <li>Dovetail connector included (9mm)</li> </ul>	CA7 all		<b>Mechanical</b> Without auxiliaries	<b>CM7</b>	20
				<b>Mechanical/Electrical</b> Two NC aux contacts	<b>CM7-02</b>	24

Control Modules (continued)

Module	Description	For use with...	Connection Diagrams	Function	Catalog Number	Price
	<p><b>Mechanical Latch –</b> Following contactor latching, the contactor coil is immediately de-energized by the NC auxiliary contact (65-66).</p> <ul style="list-style-type: none"> <li>• Electrical or manual release</li> <li>• 1 NO + 1 NC auxiliary switch</li> <li>• Suitable for all CA7 contactors</li> </ul>	CA7 all			<b>CV7-11-*</b> <i>Replace * with coil code below</i>	56
	<p><b>Electronic Interface –</b> Interface between the DC control signal from a PLC and the AC operating mechanism of the contactor.</p> <ul style="list-style-type: none"> <li>• Requires no additional surge suppression for the coils</li> <li>• Suitable for all CA7 contactors</li> </ul>	CA7 all		<p>Control signal: 18...30VDC (24VDC nominal)</p> <p>For coil voltages of: 110...240VAC 24...48VDC</p>	<b>CR17E</b>	44
	<p><b>Surge Suppressors -</b> Limits coil switching transients.</p> <ul style="list-style-type: none"> <li>• Plug-in, coil mounted</li> <li>• Suitable for all CA7 contactors</li> </ul>	CA7 all		<p><b>RC Module -</b> AC Control (50/60Hz)</p> <p>24...48V 110...280V 380...480V</p>	<b>CR7-48</b> <b>CR7-280</b> <b>CR7-480</b>	20
				<p><b>Diode Module -</b> DC Control</p> <p>12-250VDC</p>	<b>CRD7-250</b>	20
				<p><b>Varistor Module -</b> AC/DC Control</p> <p>12...55VAC/ 12...77VDC 56...136VAC/ 78...180VDC 137...277VAC/ 181...350VDC 278...575VAC</p>	<b>CRV7-55</b> <b>CRV7-136</b> <b>CRV7-277</b> <b>CRV7-575</b>	13

CV7 Mechanical Latch Coil Codes ①②







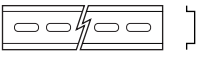
Coil Code	Voltage Range		
	50 Hz	60 Hz	VDC
12A	12V	~	12V
12B	~	12V	~
24A	24V	~	~
24B	~	24V	~
36A	~	~	24V
48A	~	~	36V & 48V
110	~	~	60V
120	110V	120V	~
127	~	~	110V

Coil Code	Voltage Range		
	50 Hz	60 Hz	VDC
208	~	208V	~
220	~	~	125V
220W	~	208V-240V	~
240	220V	240V	~
277	240V	277V	~
380	380V-400V	440V	~
380B	~	~	220V
480	440V	480V	~
600	550V	600V	~




**NOTE:** For DC supply, the CV7 utilizes an AC coil. Coils for CV7 are not interchangeable with contactor coils. If latch coil fails, order replacement CV7 latch.

① Other voltages available. Contact your Sprecher + Schuh representative.  
② CV7 must be wired for momentary operation only.

### Assembly Components

Component	Description	For Use With...	Pkg. Qty.	Catalog Number	Price Each
	<b>Dovetail Connectors –</b> Connects multiple contactor and starter assemblies together.	CA7 all	10 ①	CA7-S9	1
	<b>Reversing Power Wiring Kit -</b> Provides a solid “wireless” connection for reversing applications. May be used with both solid state and thermal O/L relays.	CA7-9...12	1	CAUT7-PW23	10
		CA7-30...37	1	CAUT7-PW37	12
		CA7-43	1	CAUT7-PW43	22
		CA7-60...85	1	CAUT7-PW85	56
	<b>Wye-Delta Power Wiring Kit -</b> Provides a solid “wireless” connection for wye-delta applications. May be used with both solid state and thermal O/L relays.	CA7-9...12	1	CAYT7-PW23	13
		CA7-30...37	1	CAYT7-PW37	16
		CA7-43	1	CAYT7-PW43	26
		CA7-60...85	1	CAYT7-PW85	63
	<b>Connecting Module -</b> Provides a solid “wireless” connection between a CA7 contactor and a KTA3 Motor Circuit Controller.	KTA3-25 with CA7-9...23	1	KT3-NW23	12
	<b>Protective Covers -</b> Protects against unintended manual operation of contactors, front mounted auxiliary contacts, pneumatic timers and latches.	CA7-9...85	10 ①	CA7-SCC	2
		CS7-PV, CA7-PV, CZE7, CZA7, CV7	1	CA7-SCF	1
	<b>Device Support -</b> For mounting one KTA3 Motor Circuit Controller and one CA7-9...30 contactor. Device Support is DIN-rail mounted or base mounted with three screws.	CA7-9...30		See Section G	
	<b>DIN-Rail -</b> Top Hat (2 types) and G-rail - 2 meter lengths	CA7 all		See Section G	

### Marking Systems

Component	Description	Pkg. Qty.	Catalog Number	Price Each
	<b>Label Sheet –</b> 1 sheet with 105 self-adhesive paper labels each, 6 x 17mm	1	CA7-FMS	1
	<b>Marking Tag Sheet -</b> 1 sheet with 160 perforated paper labels each, 6 x 17mm. To be used with transparent cover.	1	CA7-FMP	1
	<b>Transparent Cover -</b> To be used with Marking Tag Sheets.	100 ②	CA7-FMC	.10
	<b>Tag Carrier -</b> For marking with Clip-on Tags. See Terminals Section for complete listing of Clip-on Tags.	100 ②	CA7-FMA1	.10

① Minimum order quantity is one package of 10.  
Price each x 10 = total price.

② Minimum order quantity is one package of 100.  
Price each x 100 = total price.

**M1 Enclosures ❶**

Enclosure	Description	For Use With...	Catalog Number	Price
	<b>Sheet metal enclosure ("A" box) - ❶</b> - Includes installed Reset Kit	CA(T)7-9...37	<b>M1-100645/3</b> ❶	30
	<b>Sheet metal enclosure ("B" box) - ❶</b> - Includes Reset Kit - Includes special offset attachment for resetting CEP7 solid state overload relays (only necessary with CA(T)-60...85 starters) ❷	CA(T)7-60...85 <i>Backpan not used</i> CA(T)7-43 CAU(T)7-9...43 CA(T)7-9...43 w/ CPT <i>Backpan required</i>	<b>M1-130706-7</b> ❶❷	62
	<b>"B box" enclosure backpan</b> <i>Required when mounting all contactor/starter configurations noted here.</i>	CA(T)7-43 CAU(T)7-9...43 CA(T)7-9...43 w/ CPT	<b>TI-2.11.1</b>	10

**M1 Enclosure Pilot Device Kits**

Enclosure	Description	For Use With M1 Enclosure...	Catalog Number	Price
	<b>START-STOP pushbutton assembly -</b> includes mounting bracket and wiring	M1-100645/3 M1-130706-7	<b>SS3-NA</b> ❸ <b>SS3-NB</b> ❹	40
	<b>HAND-OFF-AUTO selector switch assembly -</b> includes mounting bracket and wiring	M1-100645/3 M1-130706-7	<b>SS2-NA</b> ❸ <b>SS2-NB</b> ❹	40
	<b>ON-OFF selector switch assembly -</b> with mounting bracket and wiring	M1-100645/3 M1-130706-7	<b>SS4-NA</b> ❸ <b>SS4-NB</b> ❹	40
	<b>Pilot light (neon type) assembly -</b> includes mounting bracket, wiring and resistors for all standard voltages between 115V and 575V	M1-100645/3 M1-130706-7	<b>PL-NA</b> ❸ <b>PL-NB</b> ❹	75

- ❶ Not designed for use with CT7 thermal overload relays or CA7-9C...CA7-43C contactors (with DC coils).
- ❷ Special offset attachment (Cat.# TI-12-18) may be purchased separately. List price \$2.
- ❸ Pilot device kit also for use with all enclosed contactors or starters listed in this catalog with enclosure dimension "A".
- ❹ Pilot device kit also for use with all enclosed contactors or starters listed in this catalog with enclosure dimension "B".