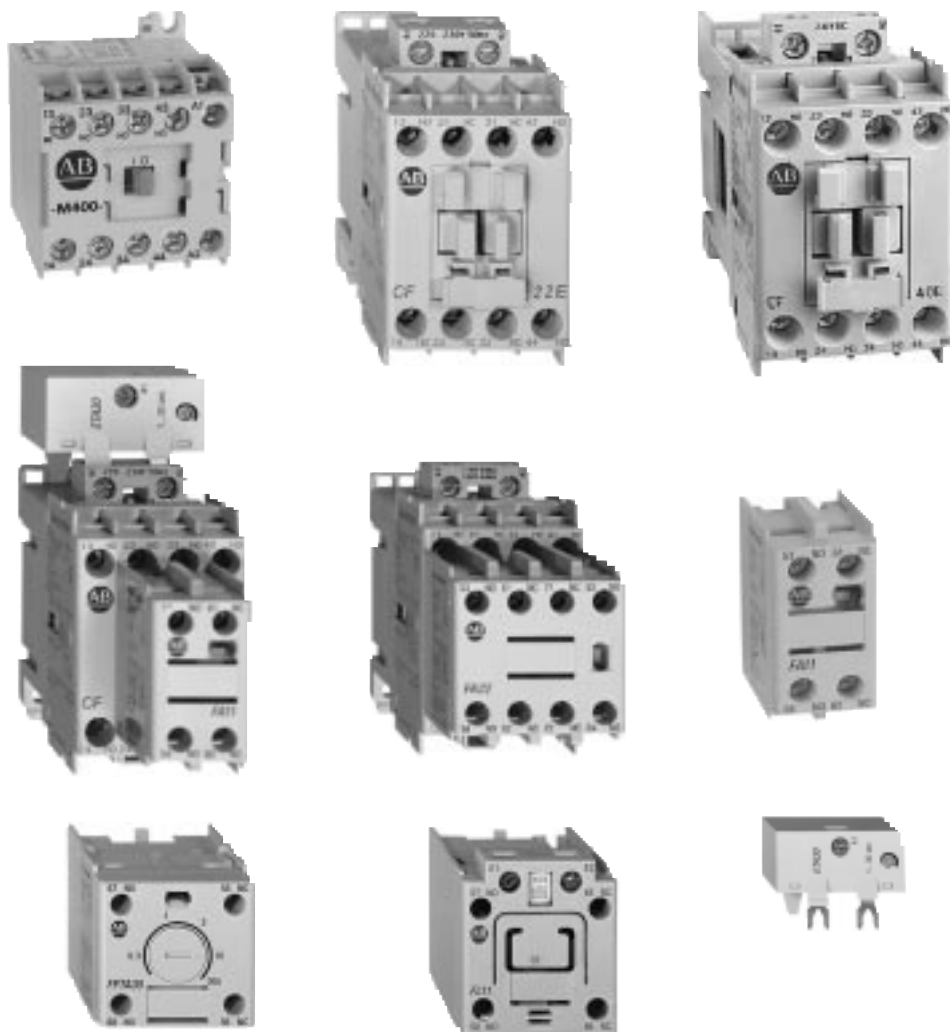


Control Relays Bulletin 700-M / CS 4, Bulletin 700-CF



Ordering Advice

For Allen-Bradley branded products choose the Allen-Bradley Cat. No.

For Sprecher+Schuh branded products choose the Sprecher+Schuh Ref. or Art. No.

Bulletin 700-M / CS 4

- Up to 8 N/O or up to 4 N/C
- Switching Capacity AC-1 12 A

Bulletin 700-CF

- High Contact Reliability
- Electronic and Pneumatic Timing Modules
- Environmentally friendly Materials
- Space-saving Coil Modules
- The same Accessories as for the Contactor Range Bulletin 100-C

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Control Relays

- AC / DC Control



700-M / CS 4



700-CF220



700-CF310



700-CF400

AC Control

AC-1	AC-15								Connection diagrams	Allen-Bradley Cat. No.		Sprecher+Schuh Type Ref.		Index
I_e [A]	I_e [A]													
40°C	24/48 V	120 V	230 V	240 V	400 V	500 V	600 V	690 V						
16	—	—	6	—	2.5	1.25	—	—		700-M220	⊗		CS 4-22Z- 1V2	167
										700-M310	⊗		CS 4-31Z- 1V2	168
										700-M400	⊗		CS 4-40E- 1V2	169
										700-MZ220	⊗		CS 4-L22Z- 1V2	170
25	16	14	—	10	5	2.5	1.8	1		700-CF220	⊗	☆	—	171
										700-CF310	⊗	☆	—	172
										700-CF400	⊗	☆	—	173
										⊗	☆			

DC Control

AC-1	AC-15								Connection diagrams	Allen-Bradley Cat. No.		Sprecher+Schuh Type Ref.	Index
I_e [A]	I_e [A]												
40°C	24/48 V	120 V	230 V	240 V	400 V	500 V	600 V	690 V					
16	—	—	6	—	2.5	1.25	—	—		700DC-M220	⊗	CS 4C-22Z- 1V2	174
										700DC-M310	⊗	CS 4C-31Z- 1V2	175
										700DC-M400	⊗	CS 4C-40E- 1V2	176
										700DC-MZ220	⊗	CS 4C-L22Z- 1V2	177
25	16	14	—	10	5	2.5	1.8	1		700-CF220	⊗ ☆	—	178
										700-CF310	⊗ ☆	—	179
										700-CF400	⊗ ☆	—	180
										⊗ ☆			

Control Relays

Product Selection

Standard Control Voltages for AC and DC Control

⊗ Control Voltage Identification

700-M / CS 4	② ①	[V]	24	48	110	110-120	220-230	230-240	240	380-400	400-415						
	50 Hz	⊗	—	—	A1	—	A2	—	—	A3							
	60 Hz	⊗	—	—	—	A1	—	A2	—	—	A3						
	50/60 Hz	⊗	A24	A48	—	—	—	—	A23	—	—						

700-CF	①	[V]	12	24	32	36	42	48	100	100-110	110	120	127	200	200-220	200-230	208	208-240
	50 Hz	⊗	(R)	K	V	(W)	X	Y	KP	—	D	(P)	S	KG	—	—	—	—
	60 Hz	⊗	(Q)	J	—	V	—	X	—	KP	—	D	—	—	KG	—	H	L
	50/60 Hz	⊗	—	KJ	—	—	—	KY	KP	—	KD	—	—	KG	—	(KL)	—	—
	①	[V]	220-230	230	230-240	240	277	347	380	380-400	400	400-415	440	480	500	550	600	
	50 Hz	⊗	F	—	VA	T	—	—	—	N	—	G	B	—	M	(C)	—	
	60 Hz	⊗	—	—	—	A	T	I	(E)	—	—	—	N	B	—	—	(C)	
	50/60 Hz	⊗	—	KF	—	KA	—	—	—	—	KN	—	KB	—	—	—	—	

700DC-M..Z / CS 4C..C	② ①	[V]	24	48	110	220												
	DC	⊗	Z24	Z48	Z11	Z2												
	with surge suppressor diode DC	⊗	D24	—	—	—												

700-CF ... Z, 700-CF ... D	② ①	[V]	6-12	12	24	17-30	36	48	60	64	72	80	110	115	125	220	230	250
	DC	⊗	ZR	ZQ	ZJ	ZV	(ZW)	ZY	ZZ	ZB	(ZG)	ZE	ZD	ZP	ZS	ZA	ZF	ZT
	with surge suppressor diode DC	⊗	—	—	DJ	—	—	—	—	—	—	—	—	—	—	—	—	—

Surcharge	Type	Available control voltages				No surcharge		Index
Special control voltages	700-M / CS 4, 700DC-M / CS 4C	12...500 V50Hz / 12...600 V60Hz / 12...250 VDC				greater than 25 pcs.		181
	700-CF	12...600 V50Hz / 12...600 V60Hz / 12...250 VDC				greater than 20 pcs.		182
with surge suppressor diode	700DC-M / CS 4C	24 VDC				—		183
	700-CF	24 VDC				—		184

() Control voltage identifications in parentheses: Please allow for a delivery time of approximately 4 weeks.

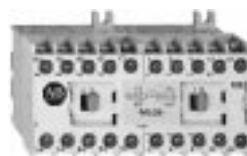
10

Options	Cat. No. suffix	Description	Ordering example
⊗ Control voltage	For example A2	Enter the standard control voltage code from the tables above	700-M220A2
☆ Packing lots (units)	No entry M	△ Single package (1 each, standard delivery) △ Multipacks (20 each)	700-CF220⊗ 700-C/220⊗M



Special Versions

- 700-ML / CSV 4 Reversing Control Relays
- 700-MB / CS 4-B Control Relays with Bifurcated Contacts (H-Contacts)
- AC / DC Control



700-ML / CSV 4



700-MB / CS 4B

Bulletin 700-ML / CSV 4 Reversing Control Relays

AC-1	AC-15						Connection diagrams	Allen-Bradley Cat. No.		Sprecher+Schuh Type Ref.	Index
I_e [A]	I_e [A]										
40°C	24/48 V	120 V	230 V	240 V	400 V	500 V					
16	—	—	6	—	2.5	1.25					

Bulletin 700-MB / CS 4-B Control Relays with Bifurcated Contacts (H-Contacts)

AC-1	AC-15								Connection diagrams	Allen-Bradley Cat. No.	Sprecher+Schuh Type Ref.	Index	
I_e [A]	I_e [A]												
40°C	24/48 V	120 V	230 V	240 V	400 V	500 V	600 V	690 V					
16	—	—	6	—	2.5	1.25	—	—		700-MB220	⊗	CS 4C-B22E- 1V	188
										700-MB310	⊗	CS 4C-B31E- 1V	189
										700-MB400	⊗	CS 4C-B40E- 1V	190
10	—	—	6	—	2.5	1.25	—	—		700DC-MB220	⊗	CS 4C-B22E- 1VDC	191
										700DC-MB310	⊗	CS 4C-B31E- 1VDC	192
										700DC-MB400	⊗	CS 4C-B40E- 1VDC	193
											⊗		

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Options	Cat. No. suffix	Description	Ordering example
⊗ Control voltage	For example KF	Enter the standard control voltage code from tables below	700-MB220KF

Standard Control Voltages for AC and DC Control

700-ML / CSV 4 700-MB / CS 4-B	①	②	[V]	24	48	110	110-120	220-230	230-240	240	380-400	400-415						
	50 Hz	⊗	—	—	—	A1	—	A2	—	—	A3	—	—	—	—	—	—	—
	60 Hz	⊗	—	—	—	A1	—	A2	—	—	A3	—	—	—	—	—	—	—
	50/60 Hz	⊗	A24	A48	—	—	—	—	A23	—	—	—	—	—	—	—	—	—

700DC-MB / CS 4C-B with surge suppressor module	①	②	[V]	24	48	110	220											
	DC	⊗	Z24	Z48	Z11	Z2	—	—	—	—	—	—	—	—	—	—	—	—
	DC	⊗	D24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Surcharge	Type	Available control voltages	No surcharge	Index
Special control voltages	700 (DC)-ML / CSV 4 (C), 700 (DC)-MB / CS 4 (C)-B	12...500 V50Hz / 12...600 V60Hz / 12...250 VDC	greater than 25 pcs.	194
with surge suppressor module	700DC-ML / CSV 4C, 700DC-MB / CS 4C-B	24 VDC	—	195

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