









Bulletin 700-FE, -FS, -M, -CF, CRF, -HA, -HC, -HK, -HL
Relays and Timers
Quick Selection Table

		
Bulletin No.	700-FE	700-FS
Type	DIN Rail Timer	DIN Rail Timer
Control Outputs: Time Limit Instantaneous	1 N.O. or SPDT Timed	SPDT DPDT, 2 N.O. + 1 common
Operation Modes:	ON-Delay, OFF-Delay, One Shot, Repeat Cycle-Pulse, Fleeting OFF-Delay, Pulse Converter, Star Delta	11 Different Timing Modes
Time Range	0.05 s...10 h	0.05s...60 h
Supply Voltage	24V AC/DC, 110...240V AC 24V...48V AC/DC 24V...240V AC	12V DC 24V...48V DC 24V...240V AC
Contact Rating at 120V AC	6 A	8 A
Certifications	cUR, UL, CE	cUR, UL, CE
Page Number	105	106

		
Bulletin No.	700-M	700-CF/700-CRF
Type	Miniature Control Relay	Control Relay
Spring Clamp Terminals	—	✓
Contacts	Available as: 4 N.O.; 3 N.O., 1 N.C.; 2 N.O., 2 N.C. Optional front-mounted 2 or 4 pole external auxiliary contact block	Available as: 4 N.O.; 3 N.O., 1 N.C.; 2 N.O., 2 N.C.; 4 N.C. Optional front or side mounted 1, 2 or 4 pole external auxiliary contacts blocks
Dimensions (W x H x D)	AC = 45 x 56 x 48 mm DC = 45 x 56 x 48 mm	AC = 45 x 81 x 119.5 mm DC = 45 x 81 x 145.5 mm
AC-1 Ratings	16A @ 500V (Standard) 10A @ 500V (Bifurcated)	20A @ 690V (Standard) 10A @ 690V (Bifurcated)
AC-15 Ratings	12...120V AC, 10A 220...240V AC, 6A 360...400V AC, 2.5A 480...500V AC, 1.25A	12...240V AC, 10A 400V AC, 6A 480...500V AC, 2.5A 600...690V AC, 1A
Coil Voltages	AC = 24-480V AC, 50-60Hz DC = 12-250V DC	AC = 12-600V AC, 50-60Hz DC = 9-250V DC
Optional Accessories	Front-mount auxiliary contacts, surge suppressors, electronic timers	Front or side-mount auxiliary contacts, surge suppressors, electronic or pneumatic timers, mechanical latches
Standards/Approvals	UL, CSA, IEC, CE	UL, CSA, IEC, CE
Socket Type	DIN Rail or Panel Mount	DIN Rail or Panel Mount
Page Number	Page 109	Page 109

Relays and Timers
Quick Selection Table

				
Bulletin No.	700-HA	700-HC	700-HK	700-HL
Type	General Purpose Relay	Interposing/Isolation Relay	Interposing/Isolation Relay	Interposing/Isolation Relay
Contact Form	DPDT, 3PDT	2PDT, 4PDT	SPDT, DPDT	SPDT (1 c/o) 1 N.O. (SSR)
Contact Type	Single, Bifurcated	Single, Bifurcated	Single	Single
Contact Material	AgNi, AgNi + Gold	AgNi, AgNi + Gold	AgCdO, AgCd+Gold	AgSnO
Max. operating current under resistive load	10 A	10 A (2PDT) 7 A (4PDT)	5 A (DPDT), 10 A (SPDT)	6 A (SPDT), 2 A (SSR)
Min. permissible load	700-HA: 10V, 50 mA 700-HAB: 6V, 30 mA 700-HAX: 6V, 1 mA	10V 1 mA (Gold), 10V 10 mA (Silver)	10V 50 mA (Silver), 5V 10 mA (Gold)	12V 6 mA (72 mW) Silver 8V, 2.5 mA (20 mW) Gold
Coil Voltage	AC: 6V, 12V, 24V, 48V, 110V, 120V, 208V, 230V, 240V, 277V DC: 6V, 12V, 24V, 36V, 48V, 60V, 80V, 110V, 125V, 140V, 220V	AC: 6V, 12V, 24V, 120V, 240V DC: 6V, 12V, 24V, 48V, 110V	AC: 6V, 12V, 24V, 120V, 240V DC: 6V, 12V, 24V, 48V, 110V	AC: 12V, 24V, 48V, 110V, 120V, 230V, 240V DC: 12V, 24V, 48V, 125V, 230V, 240V
Permissible Coil Voltage Variation	80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC	80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC	85...110% of Nominal Voltage at 50 Hz 85...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC	85...110% of Nominal Voltage at 50 Hz 85...110% of Nominal Voltage at 60 Hz 80...150% of Nominal Voltage at DC
Dielectric Withstand Voltage	Pole-to-pole: 2000V Contact-to-coil: 2000V Contact-to-frame: 2000V	Pole-to-pole: 1600V Contact-to-coil: 1600V Contact-to-frame: 1600V	Pole-to-pole: 1500V AC Contact-to-coil: 1500V AC Contact-to-frame: 1500V AC	Pole-to-pole: — Contact-to-coil: 4000V AC Contact-to-frame: 1500V AC
Electric Service Life (cycles)	100 000 minimum	100 000 minimum	100 000 minimum	100 000 minimum
Approvals	CE, cULus, cURus, ABS, IMQ, RINA	CE, cULus, cURus, IMQ, ABS, RINA	CE, UL, UR, CSA	CE, cURus, cULus, ABS, IMQ
Socket Type	700-HN100, 700-HN101, 700-HN125, 700-HN126, 700-HN202, 700-HN203	700-HN103, 700-HN128, 700-HN104	700-HN121 700-HN122	—
Page Number	Page 112	Page 113	Page 113	Page 114

Relays and Timers

Product Selection: 700-FE



Single Function
Timing Relay

700-FEA1S



Multi-function
Timing Relay

700-FEM3T



Star-Delta
Timing Relay

700-FEY2Q

Description				
Single Function Timing Relay <ul style="list-style-type: none"> Width 17.5 mm according DIN 43880 	Multi-time setting ranges 0.75 s...1 h (15s) 0.75...15 s (1m) 0.05...1 min (8m) 0.4...8 min (1h) 0.05...1 h		Multi-time setting ranges 0.05 s...10 h (1s) 0.05...1 s (10s) 0.5...10 s (1m) 0.05...1 min (10m) 0.5...10 min (1h) 0.05...1 h (10h) 0.5...10 h	
Supply Voltage	U22 24V AC/DC (A3/A2) 110...240V 50/60 Hz (A1/A2)		U23 24...48V DC (A1/A2) 24...240V 50/60 Hz (A1/A2)	
Functions	Cat. No.	PQ	Cat. No.	PQ
(A) On-delay	700-FEA1SU22	1	700-FEA3TU23	1
(B) Off-delay	700-FEB1SU22		700-FEB3TU23	
(D) One shot	700-FED1SU22		700-FED3TU23	
(F) Symmetric flasher starting with pulse	700-FEF1SU22		700-FEF3TU23	
(E) Fleeting off-delay	—		700-FEE3TU23	
(L) Pulse converter	—		700-FEL3TU23	
Multi-Function Timing Relay <ul style="list-style-type: none"> Width 17.5 mm according DIN 43880 Timing Relay includes 4 selectable functions: (A) On-delay (B) Off-delay (D) One-shot (F) Flashing started by impulse	Multi-time setting ranges 0.5 s...1 h (10s) 0.5...10 s (1m) 0.05...1 min (10m) 0.5...10 min (1h) .05...1 h		Multi-time setting ranges 0.05 s...10 h (1s) 0.05...1 s (10s) 0.5...10 s (1m) 0.05...1 min (10m) 0.5...10 min (1h) 0.05...1 h (10h) 0.5...10 h	
Supply Voltage	Cat. No.	PQ	Cat. No.	PQ
U22 110...240V, 50/60 Hz (A1/A2) 24V AC/DC (A3/A2)	700-FEM1RU22	1	—	1
U23 24...48V AC (A1/A2) 24...240V, 50/60 Hz (A1/A2)	—		700-FEM3TU23	
Star-Delta Timing Relay <ul style="list-style-type: none"> Width 17.5 mm according DIN 43880 Multi-time setting ranges 0.15 s...10 h (3s) 0.15...3 s (10s) 0.5...10 s (1m) 0.05...1 min (10m) 0.5...10 min				
Function	Cat. No.		PQ	
(Y) Star-delta timing relay	700-FEY2QU23		1	

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity

Relays and Timers

Product Selection: 700-FS



700-FSM



700-FSH

Multi-Function Timing Relays

- Width 22.5 mm according to DIN 43880

Description					
The multi-function timing relay 700-FSM includes 10 functions selectable:		Multi-time setting range 0.05 s...60 h			
(A)	On-delay	(1s)	0.05...1 s		
(B)	Off-delay	(3s)	0.15...3 s		
(C)	On- and off-delay	(10s)	0.5...10 s		
(D)	One shot	(1mn)	0.05...1 min		
(E)	Fleeting off-delay	(3mn)	0.15...3 min		
(F)	Symmetric flasher starting with pulse	(10mn)	0.5...10 min		
(I)	On-delay pulse generator	(1h)	0.05...1 h		
(L)	Impulse converter	(3h)	0.15...3 h		
(On)	ON-function (for installation and maintenance)	(10h)	0.5...10 h		
(Off)	OFF-function (for installation and maintenance)	(60h)	3...60 h		
Available	Supply Voltage (A1/A2)	Cat. No.	PQ	Cat. No.	PQ
from stock	U23 24...48V DC 24...240V 50/60 Hz	700-FSM3UU23	1	700-FSM4UU23	1
on request	Z12 12V DC	700-FSM3UZ12		700-FSM4UZ12	
on request	U18 24...240V AC/DC	700-FSM3UU18		700-FSM4UU18	
on request	A40 400V 50/60 Hz	700-FSM3UA40		700-FSM4UA40	

Timing relay with special function		Multi-time setting range			
• Width 22.5 mm according to DIN 43880		U 0.m60 h			
Supply Voltage (A1/A2)		(1s)	0.05...1s	(10m)	0.5...10min
Z12	12V DC	(3s)	0.15...3s	(1h)	0.05...1h
U23	24...48V DC, 24...240V 50/60 Hz	(10s)	0.5...10s	(3h)	0.15...3h
A40	400V 50/60 Hz	(1m)	0.05...1min	(10h)	0.5...10h
		(3m)	0.15...3min	(60h)	3...60h
Function		Cat. No.	PQ	Cat. No.	PQ
(H) Flasher (repeat cycle starting with pulse or pause)		700-FSH3UU23 700-FSH3VU23 700-FSH3UZ12 700-FSH3VZ12 700-FSH3UA40 700-FSH3VA40	1	from stock from stock	
U18 24...240V AC/DC		Multi-time setting range 0.15 s...10 min			
		(2.5s)	0.15...2.5 s	(80s)	4...80 s
		(10s)	0.5...10 s	(10m)	
			0.5...10 min		
Function		Cat. No.	PQ	Cat. No.	PQ
(Q) Off-delay without supply voltage		700-FSQ3QU18	1	700-FSQ4QU18	1

See Publication 700-SG003B-EN-P for complete product information
PQ = Package Quantity



700-FSA



700-FSY2

Single-Function Timing Relays

- Width 22.5 mm according to DIN 43880

Description																										
<p>⊙ Available mono-time ranges Complete the Cat. No. with the corresponding identification ⊙ from the table on the next page. Supply Voltage (A1/A2) Z12 12 VDC U23 24... 48 VDC 24... 240 V 50/60 Hz U18 24... 240 VAC/DC A40 400 V 50/60 Hz</p>	<p>Multi-time setting ranges 0.05 s...60 h</p> <table> <tr> <td>(1s)</td> <td>0.05...1 s</td> <td>(1m)</td> <td>0.05...1 min</td> </tr> <tr> <td>(1h)</td> <td>0.05...1 h</td> <td></td> <td></td> </tr> <tr> <td>(3s)</td> <td>0.15...3 s</td> <td>(3m)</td> <td>0.15...3 min</td> </tr> <tr> <td>(3h)</td> <td>0.15...3 h</td> <td></td> <td></td> </tr> <tr> <td>(10s)</td> <td>0.5...10 s</td> <td>(10m)</td> <td>0.5...10 min</td> </tr> <tr> <td>(10h)</td> <td>0.5...10 h</td> <td>(60h)</td> <td>3...60 h</td> </tr> </table>		(1s)	0.05...1 s	(1m)	0.05...1 min	(1h)	0.05...1 h			(3s)	0.15...3 s	(3m)	0.15...3 min	(3h)	0.15...3 h			(10s)	0.5...10 s	(10m)	0.5...10 min	(10h)	0.5...10 h	(60h)	3...60 h
(1s)	0.05...1 s	(1m)	0.05...1 min																							
(1h)	0.05...1 h																									
(3s)	0.15...3 s	(3m)	0.15...3 min																							
(3h)	0.15...3 h																									
(10s)	0.5...10 s	(10m)	0.5...10 min																							
(10h)	0.5...10 h	(60h)	3...60 h																							
Function	Cat. No.	PQ	Cat. No.	PQ																						
(A) On-delay	from stock: 700-FSA3⊙U23 700-FSA3UU23 on request: 700-FSA3⊙Z12 700-FSA3UZ12 700-FSA3⊙U18 700-FSA3⊙A40 700-FSA3UA40	1	from stock: 700-FSA4UU23 on request: 700-FSA4UZ12 700-FSA4UA40	1																						
(B) Off-delay	from stock: 700-FSB3⊙U23 700-FSB3UU23 on request: 700-FSB3⊙Z12 700-FSB3UZ12 700-FSB3⊙U18 700-FSB3⊙A40 700-FSB3UA40	1	from stock: 700-FSB4UU23 on request: 700-FSB4UZ12 700-FSB4UA40	1																						
(C) On- and off-delay	from stock: 700-FSC3⊙U23 on request: 700-FSC3⊙Z12 700-FSC3⊙U18 700-FSC3⊙A40	1	—	-																						
(D) One shot	from stock: 700-FSD3⊙U23 on request: 700-FSD3⊙Z12 700-FSD3⊙U18 700-FSD3⊙A40	1	—	-																						

⊙ Mono-Time Ranges, see Page 108

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity

Relays and Timers

Product Selection: 700-FS

Single-Function Timing Relays

- Width 22.5 mm according to DIN 43880

⊙ Mono-Time Ranges


Complete the Cat. No. with the mono-time range identification

Time Ranges	0.05...1 s	0.15...3 s	0.5...10 s	1.5...30 s	0.05...1 min	0.15...3 min
⊙	A	B	C	D	E	F

Time Ranges	0.5...10 min	1.5...30 min	0.05...1 h	0.15...3 h	0.5...10 h	3.0...60 h
⊙	G	H	I	J	K	L

Special Single-Function Timing Relays

- Width 22.5 mm according to DIN 43880

		
Supply Voltage (A1/A2) U23 24...48VDC 24...240V 50/60 Hz A40 400 V 50/60 Hz		⊙ Available mono-time ranges Complete the Cat. No. with the corresponding identification ⊙ from the table below.
Function	Cat. No.	PQ
(Y) Star-delta timing relay	from stock: 700-FSY2⊙U23	1
(Y) Star-delta timing relay	on request: 700-FSY2⊙A40	1

⊙ Mono-Time Ranges

Complete the Cat. No. with the mono-time range identification

Time Ranges	0.5...10 s	1.5...30 s	0.05...1 min	0.15...3 min	0.5...10 min
⊙	C	D	E	F	G

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity

Control Relays



700-M



700-CF



700-CRF

AC-control

AC-1 I_e [A]	AC-15 I_e [A]		Contacts		Screw Terminals		Spring Clamp Terminals	
	240V	400V			Cat. No.	PQ	Cat. No.	PQ
40 °C			N.O.	N.C.				
16	-	2.5	2	2	700-M220⊗	⊕	—	
			3	1	700-M310⊗	⊕	—	
			4	0	700-M400⊗	⊕	—	
			1+1L	1+1L	700-MZ220⊗	⊕	—	
25	10	5	2	2	700-CF220⊗	☆	700-CRF220⊗	1
			3	1	700-CF310⊗	☆	700-CRF310⊗	
			4	0	700-CF400⊗	☆	700-CRF400⊗	

DC-control

AC-1 I_e [A]	AC-15 I_e [A]		Contacts		Screw Terminals		Spring Clamp Terminals	
	240V	400V			Cat. No.	PQ	Cat. No.	PQ
40 °C			N.O.	N.C.				
16	-	2.5	2	2	700DC-M220⊗	⊕	—	
			3	1	700DC-M310⊗	⊕	—	
			4	0	700DC-M400⊗	⊕	—	
			1+1L	1+1L	700DC-MZ220⊗	⊕	—	
25	10	5	2	2	700-CF220⊗	☆	700-CRF220⊗	1
			3	1	700-CF310⊗	☆	700-CRF310⊗	
			4	0	700-CF400⊗	☆	700-CRF400⊗	

DC version with diode protection circuit with surcharge.

⊗ Standard Control Voltages, see Page 110

Options	Cat. No. Suffix	Description	Ordering Example
⊗ Control Voltage AC	e.g. A1	Voltage Selection Code from table	700-M220A1
⊕ Package Quantity 700-M	No entry	⊆ Multi-pack (10 pieces) only A24, A1, KF, A3A	700-M220⊗
	S	⊆ Single item (1 piece, standard)	700-M220⊗3S
☆ Package Quantity 700-C	No entry	⊆ Single item (1 piece, standard)	700-CF220⊗
	M	⊆ Multi-pack (20 pieces)	700-CF220⊗M



Attention:

Bulletin 700-M...S: Standard quantity = Single item 1 piece
 Bulletin 700-C: Standard quantity= Single item 1 piece

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity, see Page 110

Relays and Timers

Product Selection: 700-M, 700-CF, 700-CRF

Control Relays

⊗ **Standard Control Voltages for AC-control**

Available control voltages: 12...500V 50 Hz / 12...600V 60 Hz

700-M	[V]	24	48	110	110 - 120	220 - 230	230	380 - 400	400 - 415		
	50 Hz	-	-	A1	-	(A2)	-	A3			
	60 Hz	-	-	-	A1	-	-	-	A3		
	50/60 Hz	A24	A48	-	-	-	KF	-	-		

700-CF 700-CRF	[Hz]	12	24	32	36	42	48	100	100-110	110	120	127	200	200-220	200-230	208-240	220-230	230	
	50	(R)	(K)	(V)	(W)	(X)	(Y)	(KP)	-	(D)	(P)	(S)	(KG)	-	-	-	CF	-	
	60	(Q)	(J)	-	(V)	-	(X)	-	(KP)	-	(D)	-	-	(KG)	-	(L)	-	-	
	50/60	-	KJ	-	-	-	KY	(KP)	-	KD	-	-	(KG)	-	(KL)	-	-	KF	

700-CF 700-CRF	[Hz]	230-240	240	277	347	380	380-400	400	400-415	440	480	500	550	600				
	50	(VA)	(T)	-	-	-	(N)	-	(G)	(B)	-	(M)	(C)	-				
	60	-	(A)	(T)	(I)	(E)	-	-	(N)	(B)	-	-	(C)	-				
	50/60	-	(KA)	-	-	-	KN	-	(KB)	-	-	-	-	-				

⊗ **Standard Control Voltages for DC-control**

Available control voltages: 12...250V DC

700DC-M..Z	[V]	24	48	110	220	
	CC	Z24	(Z48)	Z11	(Z2)	
	with diode protection circuit CC	D24	-	-		

700-CF 700-CRF	[V]	9 ①	12	24 ②	36	48	60	64	72	80	110	115	125	220	230	250
	DC	(ZR)	(ZQ)	ZJ	(ZW)	(ZY)	(ZZ)	(ZB)	(ZG)	(ZE)	ZD	(ZP)	(ZS)	(ZA)	(ZF)	(ZT)
	with diode protection circuit DC	—	—	DJ	—	—	—	—	—	—	—	—	—	—	—	—

DC version with diode protection circuit with surcharge

() **Control voltages in parentheses:** No stock item

① Extended operating limits $0.65...1.3 \times U_s$

② Extended operating limits $0.7...1.25 \times U_s$

Auxiliary Contact Blocks for Front Mounting



195-MA



100-FA



100-CRFA

Description	N.O.	N.C.	For type	Screw Terminals		Spring Clamp Terminals	
				Cat. No.	PQ	Cat. No.	PQ
Auxiliary Contact Blocks <ul style="list-style-type: none"> • 2 and 4 pole • Quick and easy mounting without tools • Electronic compatible H-contacts • Mutual positive guidance to the main contactor poles • Models with equal function with several terminal numbering choices 	0	2	700-M400	195-MA02	1	—	
	1	1	700-M400	195-MA11		—	
	2	0	700-M400, -M310, -M220, -MZ220	195-MA20		—	
	0	4	700-M400	195-MA04		—	
	2	2	700-M400	195-MA22		—	
	4	0	700-M400, -M310, -M220, -MZ220	195-MA40		—	
Auxiliary Contact Blocks for Front Mounting ❶ <ul style="list-style-type: none"> • 2 and 4 pole • Quick and easy mounting without tools • Electronic compatible contacts • Mutual positive guidance to the main contactor poles (except for L-types) • Models with equal function with several terminal numbering choices 	0	2	700-CF, -CRF	100-FA02	★	100-CRFA02	1
	1	1	700-CF,-CRF	100-FA11	★	100-CRFA11	
	2	0	700-CF,-CRF	100-FA20	★	100-CRFA20	
	2	2	700-CF,-CRF	100-FA22	★	100-CRFA22	
	3	1	700-CF,-CRF	100-FA31	★	100-CRFA31	
	4	0	700-CF,-CRF	100-FA40	★	100-CRFA40	
	L = Late break / Early make	1+	1+	700-CF,-CRF	100-FAL22	★	

❶ Control relay and auxiliary contact block AC / DC max. 4 N.C.

Other accessories for 700-M and 700-CF see Pages 30...38

Options	Cat. No. Suffix	Description	Ordering Example
★ Package Quantity	No entry	⊆ Single item (1 piece, standard)	100-FA11
	M	⊆ Multi-pack (10 pieces)	100-FA11M

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity

Relays and Timers

Product Selection: 700-HA



Plug-in Relay 700-HA



Base Socket 700-HN...



Time Module 700-HT

Plug-in Relays with 2 or 3 Changeover Contacts

Description	[V]	Cat. No.	PQ
700-HA32... <ul style="list-style-type: none"> • Push-to-test, manual override • 8-pin • 2 changeover contacts 	12V 50/60Hz	700-HA32A12-3	1
	24V 50/60Hz	700-HA32A24-3	
	48V 50/60Hz	700-HA32A48-3	
	120V 50/60Hz	700-HA32A1-3	
	240V 50/60Hz	700-HA32A2-3	
	12V DC	700-HA32Z12-3	
	24V DC	700-HA32Z24-3	
	48V DC	700-HA32Z48-3	
	110V DC	700-HA32Z1-3	
	<ul style="list-style-type: none"> • Push-to-test, manual override and LED • 8-pin • 2 changeover contacts 	24V 50/60Hz	
120V 50/60Hz		700-HA32A1-3-4	
240V 50/60Hz		700-HA32A2-3-4	
24V DC		700-HA32Z24-3-4	
700-HA33... <ul style="list-style-type: none"> • Push-to-test, manual override • 11-pin • 3 changeover contacts 	12V 50/60Hz	700-HA33A12-3	1
	24V 50/60Hz	700-HA33A24-3	
	48V 50/60Hz	700-HA33A48-3	
	120V 50/60Hz	700-HA33A1-3	
	240V 50/60Hz	700-HA33A2-3	
	12V DC	700-HA33Z12-3	
	24V DC	700-HA33Z24-3	
	48V DC	700-HA33Z48-3	
	110V DC	700-HA33Z1-3	
	<ul style="list-style-type: none"> • Push-to-test, manual override and LED • 11-pin • 3 changeover contacts 	24V 50/60Hz	
120V 50/60Hz		700-HA33A1-3-4	
240V 50/60Hz		700-HA33A2-3-4	
24V DC		700-HA33Z24-3-4	

Special versions with double or gold contacts on request. Available control voltages 6...240V 50/60 Hz. 6...220V DC

Base Socket

Description	For Relays	Cat. No.	PQ
8-pin (use with or without optional timer module)	700-HA32...	700-HN202	10
11-pin (use with or without optional timer module)	700-HA33...	700-HN203	
8-pin	700-HA32...	700-HN100	
11-pin	700-HA33...	700-HN101	

Multi-function Timer Module

Description	Control Voltage	Cat. No.	PQ
<ul style="list-style-type: none"> • Choice of 8 functions • Choice of 8 time ranges 0.1...240 h • Use with sockets 700-HN202 or 700-HN203 	24...240V AC/DC	700-HT1	1
	12...30V DC	700-HT2	

See Publication 700-SG003B-EN-P for complete product information
 PQ = Package Quantity



Relay
700-HK



Relay
700-HK



Relay
700-HK

Slim Line Relays Type HK with Plug-in Quick Connect Terminations

Description	Contact Rating	Wiring Diagrams	Control Voltage	Cat. No. ①	PQ
1 changeover contact Contacts: bifurcated gold overlay, AgCdO	10 A		24V AC	700-HKX6A24	1
1 changeover contact Contacts: AgCdO	10 A		120V AC	700-HKX6A1	
			24V DC	700-HKX6Z24	
			24V AC	700-HK36A24	
			120V AC	700-HK36A1	
			240V AC	700-HK36A2	
			24V DC	700-HK36Z24	
			110V DC	700-HK36Z1	
Socket Base				700-HN121	10
2 changeover contacts Contacts: bifurcated gold overlay, AgCdO	5 A		24V AC	700-HKX2A24	1
2 changeover contacts Contacts: AgCdO	5 A		120V AC	700-HKX2A1	
			24V DC	700-HKX2Z24	
			24V AC	700-HK32A24	
			120V AC	700-HK32A1	
			240V AC	700-HK32A2	
			24V DC	700-HK32Z24	
			110V DC	700-HK32Z1	
Socket Base				700-HN122	10

① Pilot light option: Add suffix (-4) to be selected HC relay Cat. No.

Miniature Square Base Relays Type HC with Blade Terminals

Description	Contact Rating	Wiring Diagrams	Control Voltage	Cat. No. ① ② ③	PQ
4 changeover contacts Form C AgNiAu gold plated contacts	7 A		24V AC	700-HC14Z24	1
4 changeover contacts Form C contacts AgNi	7 A (C300) (R300)		24V AC	700-HC14A24	
			120V DC	700-HC14A1	
			24V AC	700-HC24A24	
			120V AC	700-HC24A1	
			240V AC	700-HC24A2	
			24V DC	700-HC24Z24	
			110V DC	700-HC24Z1	
Socket Base				700-HN104	10

① Push-to-test option: Add suffix (-3) to the selected HC relay Cat. No.

② LED option: Add suffix (-4) to the selected HC relay Cat. No. except for the 240V AC, units add (-4L).

③ Push-to-test and LED option: Add suffix (-3-4) to the selected HC relay Cat. No.

See Publication 700-SG003B-EN-P for complete product information

PQ = Package Quantity

Relays and Timers

Product Selection: 700-HL

Terminal Block Relays Bulletin 700-HL



700-HLT...



700-HLS...

- Up to 85% panel space savings vs. traditional relays
- DIN rail mounting
- Only 6.2 mm wide (SPDT)
- Standard LED, Reverse Polarity Protection and Surge Protection

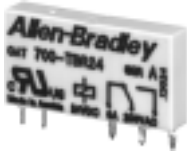
Description	Input Voltage	Contact Rating	No. of Contacts	Cat. No	PQ
Silver Plated Contacts	24V DC	6 A	1 c/o	700-HLT1Z24	10
	24V AC/DC			700-HLT1U24	
	110/125V AC/DC			700-HLT1U1	
	220...240V AC/DC			700-HLT1U2	
Silver Plated Contacts Spring Clamp Version	24V DC	6 A	1 c/o	700-HLT2Z24	10
	24V AC/DC			700-HLT2U24	
	110/125V AC/DC			700-HLT2U1	
	220...240V AC/DC			700-HLT2U2	
Gold Plated Contacts	24V DC	6 A	1 c/o	700-HLT1Z24X	10
	24V AC/DC			700-HLT1U24X	
	110/125V AC/DC			700-HLT1U1X	
	220...240V AC/DC			700-HLT1U2X	
Gold Plated Contacts Spring Clamp Version	24V DC	6 A	1 c/o	700-HLT2Z24X	10
	24V AC/DC			700-HLT2U24X	
	110/125V AC/DC			700-HLT2U1X	
	220...240V AC/DC			700-HLT2U2X	
Silver Plated Contacts; Built-in Leakage Current Suppression Circuit	240V AC	6 A	1 c/o	700-HLT1L2	10
	120/125V AC/DC			700-HLT1L1	
Gold Plated Contacts; Built-in Leakage Current Suppression Circuit	240V AC	6 A	1 c/o	700-HLT1L2X	10
	120/125V AC/DC			700-HLT1L1X	
Solid State	24V DC	2 A	1 N.O.	700-HLS1Z24	10
	110/125V AC/DC			700-HLS1U1	
	220...240V AC/DC			700-HLS1U2	
Solid State Spring Clamp Version	24V DC	2 A	1 N.O.	700-HLS2Z24	10
	110/125V AC/DC			700-HLS2U1	
	220...240V AC/DC			700-HLS2U2	
Solid State; Built-in Leakage Current Suppression Circuit	240V AC	2 A	1 N.O.	700-HLS1L2	10
	120/125V AC/DC			700-HLS1L1	

❶ Reverse polarity on the output terminals of the solid-state relay will result in the output being «ON» regardless of the state of the input voltage.

❷ Electromechanical relay to solid-state relay interchangeability possible.

See Publication 700-SG003B-EN-P for complete product information
PQ = Package Quantity

Accessories



700-TBR..



700-TBS..



700-HN177

Description	Socket Input Voltage	Cat. No	PQ
Replacement Relays	24V	700-TBR24	20
	220...240V, 120...125V	700-TBR60	
Replacement Solid-State Relays 4-blade miniature relay for use with 1 N. O. SSR output.	24V	700-TBS24	20
	220...240V, 120...125V	700-TBS60	

Description	Colour	Cat. No	PQ
20-Way Jumpers Can be cut to required length. $I_{th} = 36$ A max. per 20-way jumper.	Red	700-TBJ20R	1
	Gray	700-TBJ20G	
	Blue	700-TBJ20B	
End Barrier Used for visual separation of groups, safe separations of neighboring 700-HL modules that end with jumpers.	Black	700-HN177	1

See Publication 700-SG003B-EN-P for complete product information
PQ = Package Quantity