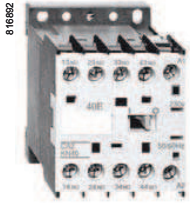


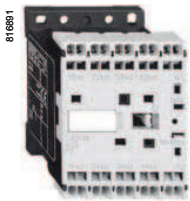
# Control relays

## TeSys K control relays

For a.c. or d.c. control circuit



CA2 KN40



CA2 KN40



CA3 KN407

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### Control relays for a.c. control circuit

- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in the open "ready-to-tighten" position.

Control circuit Consumption	Auxiliary contacts	Basic reference, to be completed by adding the voltage code (1)	Weight kg
<b>Screw clamp connections</b>			
4.5 VA	4 –	CA2 KN40	0.180
	3 1	CA2 KN31	0.180
	2 2	CA2 KN22	0.180
<b>Spring terminal connections</b>			
4.5 VA	4 –	CA2 KN403	0.180
	3 1	CA2 KN313	0.180
	2 2	CA2 KN223	0.180
<b>Faston connectors, 1 x 6.35 or 2 x 2.8</b>			
4.5 VA	4 –	CA2 KN407	0.180
	3 1	CA2 KN317	0.180
	2 2	CA2 KN227	0.180
<b>Solder pins for printed circuit boards</b>			
4.5 VA	4 –	CA2 KN405	0.210
	3 1	CA2 KN315	0.210
	2 2	CA2 KN225	0.210

### Control relays for d.c. control circuit

- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in the open "ready-to-tighten" position.

<b>Screw clamp connections</b>			
3 W	4 –	CA3 KN40	0.225
	3 1	CA3 KN31	0.225
	2 2	CA3 KN22	0.225
<b>Spring terminal connections</b>			
3 W	4 –	CA3 KN403	0.225
	3 1	CA3 KN313	0.225
	2 2	CA3 KN223	0.225
<b>Faston connectors, 1 x 6.35 or 2 x 2.8</b>			
3 W	4 –	CA3 KN407	0.225
	3 1	CA3 KN317	0.225
	2 2	CA3 KN227	0.225
<b>Solder pins for printed circuit boards</b>			
3 W	4 –	CA3 KN405	0.255
	3 1	CA3 KN315	0.255
	2 2	CA3 KN225	0.255

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Control relays CA2 K (0.8...1.15 Uc) (0.85...1.1 Uc)

Volts ~	12	20	24(2)	36	42	48	110	115	127	220/	230	230/	380/	400	400/	440	500	660/
50/60 Hz										230		240	400		415			690

Code J7 Z7 B7 C7 D7 E7 F7 FE7 FC7 M7 P7 U7 Q7 V7 N7 R7 S7 Y7

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72

Control relays CA3 K (0.8...1.15 Uc)

Volts ~	12	20	24(2)	36	48	60	72	100	110	125	200	220	230	240	250
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Code JD ZD BD CD ED ND SD KD FD GD LD MD MPD MUD UD

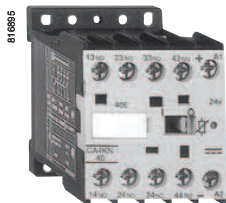
Coil with integral suppression device available: add 3 to the code required. Example: JD3.

(2) When connected in electronic sensor or in series with the coil of the control relay selected 20 V coil (~ code Z7, ~ code ZD) so as to combine for the incurrent voltage.

# Control relays

## TeSys K control relays

For d.c. control circuit



CA4 KN40●●●

### Low consumption control relays (d.c. control circuit)

- Mounting on 35 mm rail or Ø 4 screw fixing.
- Screws in the open "ready-to-tighten" position.

Control circuit Consumption	Auxiliary contacts	Basic reference, to be completed by adding the voltage code (1)	Weight	
			kg	
<b>Screw clamp connections</b>				
1.8 W	4	–	CA4 KN40●●	0.235
	3	1	CA4 KN31●●	0.235
	2	2	CA4 KN22●●	0.235
<b>Spring terminal connections</b>				
1.8 W	4	–	CA4 KN403●●	0.235
	3	1	CA4 KN313●●	0.235
	2	2	CA4 KN223●●	0.235
<b>Faston connectors, 1 x 6.35 or 2 x 2.8</b>				
1.8 W	4	–	CA4 KN407●●	0.235
	3	1	CA4 KN317●●	0.235
	2	2	CA4 KN227●●	0.235
<b>Solder pins for printed circuit boards</b>				
1.8 W	4	–	CA4 KN405●●	0.265
	3	1	CA4 KN315●●	0.265
	2	2	CA4 KN225●●	0.265

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

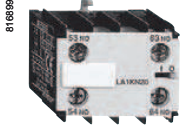
Control relays CA4 K (Wide range coil: 0.7...1.3 Uc)

Volts ~	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

# Control relays

## TeSys K control relays

### Instantaneous and time delay auxiliary contact blocks



LA1 KN

#### Instantaneous auxiliary contact blocks

Clip-on front mounting, 1 per control relay

Connection	Composition		Reference	Weight
				kg
Screw clamp terminals	2	–	LA1 KN20	0.045
	–	2	LA1 KN02	0.045
	1	1	LA1 KN11	0.045
	4	–	LA1 KN40 (1)	0.045
	3	1	LA1 KN31 (1)	0.045
	2	2	LA1 KN22 (1)	0.045
	1	3	LA1 KN13 (1)	0.045
	–	4	LA1 KN04 (1)	0.045
Spring terminals	2	–	LA1 KN203	0.045
	–	2	LA1 KN023	0.045
	1	1	LA1 KN113	0.045
	4	–	LA1 KN403 (1)	0.045
	3	1	LA1 KN313 (1)	0.045
	2	2	LA1 KN223 (1)	0.045
	1	3	LA1 KN133 (1)	0.045
	–	4	LA1 KN043 (1)	0.045
Faston connectors 1 x 6.35 or 2 x 2.8	2	–	LA1 KN207	0.045
	–	2	LA1 KN027	0.045
	1	1	LA1 KN117	0.045
	4	–	LA1 KN407 (1)	0.045
	3	1	LA1 KN317 (1)	0.045
	2	2	LA1 KN227 (1)	0.045
	1	3	LA1 KN137 (1)	0.045
	–	4	LA1 KN047 (1)	0.045

#### Electronic time delay contact blocks

- Relay output with common point changeover contact, ~ or --- 240 V, 2 A maximum
- Control voltage 0.85...1.1 Uc
- Maximum switching capacity 250 VA or 150 W
- Operating temperature - 10...+ 60 °C
- Reset time: 1.5 s during the time delay period 0.5 s after the time delay period

Clip-on front mounting, 1 per control relay

Voltage	Type	Timing range	Composition	Reference	Weight
					kg
V		s			
~ or --- 24...48	On-delay	1...30	1	LA2 KT2E	0.040
~ 110...240	On-delay	1...30	1	LA2 KT2U	0.040

**Other versions** Electronic timers type RE4.  
Please consult your Regional Sales Office.

(1) Block of 4 contacts for use on CA2 K and CA3 K.



LA2 KT2