TeSys® K IEC Style Relays

CA2KN40 • •

CA2KN403 • •

CA4KN405•••

CA3KN407 • •

Table 23.79: Control Relays

- Mounting on 35 mm DIN 3 track or 4 screw direct mounting.
- Screws in open "ready-to-tighten" position.
- NEMA A600, Q600
- IEC AC15, DC13

Control Circuit		Type of Termination	Contact Configuration		Catalog Number ▲	$ Price
Supply	Consumption		N.O.	N.C.		
AC	4.5 VA	Screw clamp	4	0	CA2KN40 • •	**35.50**
			3	1	CA2KN31••	**35.50**
			2	2	CA2KN22••	**35.50**
		Spring Termination	4	0	CA2KN403••	**35.50**
			3	1	CA2KN313••	**35.50**
			2	2	CA2KN223••	**35.50**
		Faston 1 x 6.35 or 2 x 2.8	4	0	CA2KN407••	**35.50**
			3	1	CA2KN317••	**35.50**
			2	2	CA2KN227••	**35.50**
		Solder pins for printed circuit board	4	0	CA2KN405••	**35.50**
			3	1	CA2KN315••	**35.50**
			2	2	CA2KN225••	**35.50**
DC	3 W	Screw clamp	4	0	CA3KN40••	**49.20**
			3	1	CA3KN31••	**49.20**
			2	2	CA3KN22••	**49.20**
		Spring Termination	4	0	CA3KN403••	**49.20**
			3	1	CA3KN313••	**49.20**
			2	2	CA3KN223••	**49.20**
		Faston 1 x 6.35 or 2 x 2.8	4	0	CA3KN407••	**49.20**
			3	1	CA3KN317••	**49.20**
			2	2	CA3KN227••	**49.20**
		Solder pins for printed circuit board	4	0	CA3KN405••	**49.20**
			3	1	CA3KN315••	**49.20**
			2	2	CA3KN225••	**49.20**

▲ Complete catalog number by adding proper voltage code from Table 23.81 or Table 23.82 (for example, CA2KN40**G7**).

Table 23.80: Low Consumption Control Relays

Compatible with programmable controller outputs.

- LED indicator incorporated.
- Wide range coil (70 to 130% Uc), suppressor fitted as standard.
- Mounting on 35 mm DIN 3 track or 4 screw direct mounting.
- Screws in open "ready-to-tighten" position.

DC	1.8 W	Screw clamp	4	0	CA4KN40•••	**64.00**
			3	1	CA4KN31•••	**64.00**
			2	2	CA4KN22•••	**64.00**
		Spring Termination	4	0	CA4KN403•••	**64.00**
			3	1	CA4KN313•••	**64.00**
			2	2	CA4KN223•••	**64.00**
		Faston 1 x 6.35 or 2 x 2.8	4	0	CA4KN407•••	**64.00**
			3	1	CA4KN317•••	**64.00**
			2	2	CA4KN227•••	**64.00**
		Solder pins for printed circuit board	4	0	CA4KN405•••	**64.00**
			3	1	CA4KN315•••	**64.00**
			2	2	CA4KN225•••	**64.00**

▲ Complete catalog number by adding proper voltage code from Table 23.83 (for example, CA4KN40**BW3**).

Table 23.81: Coil Voltage Codes for CA2K Control Relays (0.8–1.15 Uc) *(0.85–1.1 Uc)*

Vac 50/60 Hz	12	24	36	42	48	110	120	127	208	*220/230*	230	*230/240*	380/400	400	*400/415*	440	480	500	*660/690*
Voltage Code	J7	B7	C7	D7	E7	F7	G7	FC7	L7	M7	P7	*U7*	*Q7*	V7	*N7*	R7	T7	S7	Y7

Note: Up to and including 240 V, coil with integral suppression device available: add **2** to the code required. Example: **J72**. (Price Adder **9.50**)

Table 23.82: Coil Voltage Codes for CA3K Control Relays (0.8–1.15 Uc)

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

Note: Coil with integral suppression device available: add **3** to the code required. Example: **JD3**. (Price Adder **9.50**)

Table 23.83: Coil Voltage Codes for CA4K, Low Consumption Control Relays (Wide Range Coil: 0.7–1.3 Uc)

Vdc	12	24	48	72
Voltage Code	JW3	BW3	EW3	SW3

Approvals:

File 164353
CCN NKCR

File LR43364
Class 3211 03

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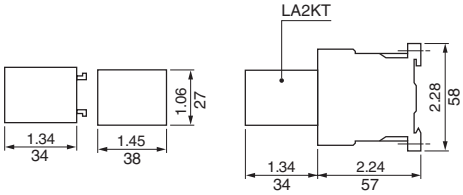
TeSys® K IEC Style Relays

LA1KN20

LA1KN40

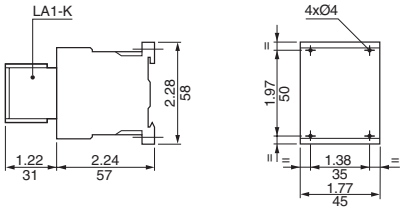
LA1KN403

LA2KT electronic time delay contact blocks

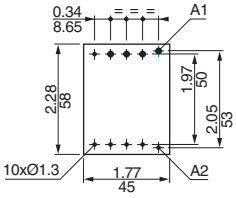


Approximate dimensions
for CA2, CA3, CA4K control relays

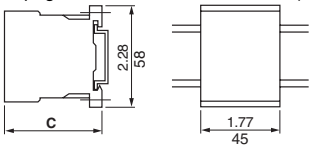
On panel



On printed circuit board



AM1DP200 or AM1DE200 mounting rail—35 mm DIN rail
(see page 22-16 for additional DIN rail)



in.
mm

C		Product
in.	mm	
2.22	59	AM1DP200
2.60	66	AM1DE200

Table 23.84: Instantaneous Auxiliary Contact Blocks ■♦

Clip-on Front Mounting, 1 Block Per Control Relay				
Type of Connection	Contact Configuration		Catalog Number	$ Price
	N.O.	N.C.		
Screw Clamp	2	0	LA1KN20	14.20
	0	2	LA1KN02	14.20
	1	1	LA1KN11	14.20
	4	0	LA1KN40▲	27.30
	3	1	LA1KN31▲	27.30
	2	2	LA1KN22▲	27.30
	1	3	LA1KN13▲	27.30
	0	4	LA1KN04▲	27.30
Spring Termination	2	0	LA1KN203	14.20
	1	1	LA1KN113	14.20
	0	2	LA1KN023	14.20
	4	0	LA1KN403▲	27.30
	3	1	LA1KN313▲	27.30
	2	2	LA1KN223▲	27.30
	1	3	LA1KN133▲	27.30
	0	4	LA1KN043▲	27.30
Faston 1 x 6.35 or 2 x 2.8	2	0	LA1KN207	14.20
	0	2	LA1KN027	14.20
	1	1	LA1KN117	14.20
	4	0	LA1KN407▲	27.30
	3	1	LA1KN317▲	27.30
	2	2	LA1KN227▲	27.30
	1	3	LA1KN137▲	27.30
	0	4	LA1KN047▲	27.30

▲ Not to be used on CA4KN relays.
■ Clip-on front mounting, 1 block per control relay.
♦ Auxiliary contact module not suitable for safety circuits.

Table 23.85: Electronic Time Delay Contact Blocks

Relay output, with common point changeover contact	240 Vac/Vdc, 2 A maximum
Control voltage	0.85–1.1 Uc
Maximum switching capacity	250 VA or 150 W
Operating temperature	–10 to + 60°C (+14° F to 140° F)
Reset time	1.5 s during the time delay period, 0.5 s after the time delay.

Table 23.86: Clip-on front mounting, 1 block per control Relay

Voltage (V)	Type	Timing Range, s	Composition C.O.	Catalog No.	$ Price
AC or DC / 24 to 48	On-delay	1 to 30	1	LA2KT2E	32.80
AC / 110 to 240				LA2KT2U	

Note: For other electronic timers see Type RE7 and 9050 Type JCK, pages 23-28 and 23-29.

Table 23.87: Accessories (supplied separately)

Description			Sold in lots of	Catalog No.	$ Price ea.
Marker holder□	Clips on front of relay		100	LA9D90	0.06
Clip-on markers□	4 maximum per device	Strip of 10 identical numbers, 0 to 9	25	AB1R•□	0.70
		Strip of 10 identical capital letters A to Z		AB1G•□	
Suppressor modules with incorporated LED indicator	Clips onto front of relay with locating device. No tools required for connection.	For AC and DC voltages 12 to 24 V (varistor)	5	LA4KE1B★	9.80
		For AC and DC voltages 32 to 48 V (varistor)		LA4KE1E★	
		For AC and DC voltages 50 to 129 V (varistor)		LA4KE1FC★	
		For AC and DC voltages 130 to 250 V (varistor)		LA4KE1UG ★	
		For DC voltages 12 to 24 V (diode + Zener diode)		LA4KC1B▼	
		For DC voltages 32 to 48 V (diode + Zener diode)		LA4KC1E▼	
		For AC voltages 220 to 250 V (RC)		LA4KA1U△	

★ Protection by the limitation of the transient voltage to 2 Uc maximum. Maximum reduction of the transient voltage peaks. Slight time delay on drop-out (1.1 to 1.5 times normal).
▼ No overvoltage or oscillation frequency. Polarized component. Slight time delay on drop-out (1.1 to 1.5 times normal).
△ Protection by limitation of the transient voltage to 3 Uc max. and limitation of the oscillation frequency. Slight time delay on drop-out (1.2 times to twice normal).
□ See "Clip-in Marker Strips" in Catalog **8501CT0101** for information on completing the catalog number.

Table 23.88: Environment

Conforming to Standards		IEC 947, NF C 63-140, VDE 0660, BS 5424, CE
Approvals		UL, CSA, DEMKO, NEMKO, SEMKO, FI
Protective treatment	Conforming to IEC 68 (DIN 50016)	"TC" (Climateproof)
Degree of protection	Conforming to VDE 0106	Protection against direct finger contact
Ambient air temperature	Storage	-58 to 176 °F (-50 to 80°C)
	Operation	-13 to 122 °F (-25 to 50°C)
Maximum operating altitude	Without derating	6562 ft (2000 m)

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