

IEC Type Industrial Control Relays Control Relays CA2K, CA3K and CA4K AC and DC Relays



Control relays



CA2KN40●●



CA3KN407●●



CA4KN405●●●

- Mounting on 35 mm DIN3 track or 4 screw direct mounting.
- Screws in open "ready-to-tighten" position.

Control circuit	Type of termination	Contact configuration		Catalog number ♦	Weight		
		N/O	N/C				
Supply	Consumption				lb/kg		
AC	4.5 VA	Screw clamp	4	–	CA2KN40●●	.40/0.180	
			3	1	CA2KN31●●	.40/0.180	
			2	2	CA2KN22●●	.40/0.180	
		Faston 1 x 6.35 or 2 x 2.8	4	–	CA2KN407●●	.40/0.180	
			3	1	CA2KN317●●	.40/0.180	
			2	2	CA2KN227●●	.40/0.180	
	Solder pins for printed circuit board	4	–	CA2KN405●●	.46/0.210		
		3	1	CA2KN315●●	.46/0.210		
		2	2	CA2KN225●●	.46/0.210		
	DC	2.4 W	Screw clamp	4	–	CA3KN40●●	.50/0.225
				3	1	CA3KN31●●	.50/0.225
				2	2	CA3KN22●●	.50/0.225
Faston 1 x 6.35 or 2 x 2.8			4	–	CA3KN407●●	.50/0.225	
			3	1	CA3KN317●●	.50/0.225	
			2	2	CA3KN227●●	.50/0.225	
Solder pins for printed circuit board		4	–	CA3KN405●●	.56/0.255		
		3	1	CA3KN315●●	.56/0.255		
		2	2	CA3KN225●●	.56/0.255		

Low consumption control relays

- Compatible with programmable controller outputs.
- LED indicator incorporated.
- Wide range coil (70 to 130% U_c), suppressor fitted as standard.
- Mounting on 35 mm DIN3 track or 4 screw direct mounting.
- Screws in open "ready-to-tighten" position.

DC	1.5 W	Screw clamp	4	–	CA4KN40●●●	.52/0.235
			3	1	CA4KN31●●●	.52/0.235
			2	2	CA4KN22●●●	.52/0.235
	Faston 1 x 6.35 or 2 x 2.8	4	–	CA4KN407●●●	.52/0.235	
		3	1	CA4KN317●●●	.52/0.235	
		2	2	CA4KN227●●●	.52/0.235	
Solder pins for printed circuit board	4	–	CA4KN405●●●	.58/0.265		
	3	1	CA4KN315●●●	.58/0.265		
	2	2	CA4KN225●●●	.58/0.265		

♦ Complete catalog number by adding proper voltage code from page 27.



IEC Type Industrial Control Relays Control Relays CA2K, CA3K and CA4K Instantaneous and Time Delay Auxiliary Contact Blocks

Instantaneous auxiliary contact blocks



LA1KN20



LA1KN40



LA1KN407

Clip-on front mounting, 1 block per control relay

Type of connection	Contact configuration		Catalog number	Weight
	N/O	N/C		
	 N/O	 N/C		lb/kg
Screw clamp	2	–	LA1KN20	.10/0.045
	–	2	LA1KN02	.10/0.045
	1	1	LA1KN11	.10/0.045
	4	–	LA1KN40 ▲	.10/0.045
	3	1	LA1KN31 ▲	.10/0.045
	2	2	LA1KN22 ▲	.10/0.045
	1	3	LA1KN13 ▲	.10/0.045
	–	4	LA1KN04 ▲	.10/0.045
Faston 1 x 6.35 or 2 x 2.8	2	–	LA1KN207	.10/0.045
	–	2	LA1KN027	.10/0.045
	1	1	LA1KN117	.10/0.045
	4	–	LA1KN407 ▲	.10/0.045
	3	1	LA1KN317 ▲	.10/0.045
	2	2	LA1KN227 ▲	.10/0.045
	1	3	LA1KN137 ▲	.10/0.045
	–	4	LA1KN047 ▲	.10/0.045

▲ Not to be used on CA4KN relays

Electronic time delay attachment

- Relay output with common point changeover contact, 240 VAC or VDC, 2 A maximum.
- Control voltage: 85 to 110% U_c.
- Maximum switching capacity: 250 VA or 150 W.
- Operating temperature: 14 to 140°F (-10 to 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 block per control relay

Voltage	Type	Timing range	Contact configuration	Catalog number	Weight
V		s	 		lb/kg
24 to 48 VAC or VDC	On-delay	1 to 30	1 NO and 1 NC with a common	LA2KT2E	.09/0.040
110 to 240 VAC	On-delay	1 to 30	1 NO and 1 NC with a common	LA2KT2U	.09/0.040

Coil Voltages

CA2K control relays (80 to 115% U_c) (85 to 110% U_c)

Volts AC	12	24	36	42	48	110	127	220/	230	230/	380/	400	400/	440	500	660/
50/60 Hz								230		240	400		415		690	
Code	J7	B7	C7	D7	E7	F7	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**.

CA3K control relays (80 to 115% U_c)

Volts DC	12	20	24	36	48	60	72	100	110	125	200	220	230	240	250
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**.

CA4K, low consumption control relays (wide range coil: 70 to 130% U_c)

Volts DC	12	24	48	72
Code	JW3	BW3	EW3	SW3



**IEC Type Industrial Control Relays
Control Relays CA2K, CA3K and CA4K
Accessories (Supplied Separately)**



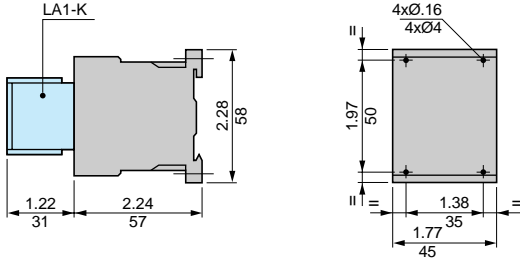
Description	Application		Sold in lots of	Catalog number	Weight lb/kg
Mounting plates for fixing	On 1 DIN1 track	Clip-on fixing	1	LA9D973	.06/0.025
	On 2 DIN3 tracks	110/120 mm fixing centres	1	DX1AP25	.14/0.065
Marker holder	Clips onto front of relay		100	LA9D90	.002/0.001
Clip-in markers	See page 35.				
Suppressor modules incorporating LED indicator	Clips onto front of relay, with orientation device. No tools required for connection.	For AC and DC voltages 12 to 24 V (varistor)	5	LA4KE1B ▲	.02/0.010
		For AC and DC voltages 32 to 48 V (varistor)	5	LA4KE1E ▲	.02/0.010
		For AC and DC voltages 50 to 250 V (varistor)	5	LA4KE1U ▲	.02/0.010
		For DC voltages 12 to 24 V (diode + Zener diode)	5	LA4KC1B *	.02/0.010
		For DC voltages 32 to 48 V (diode + Zener diode)	5	LA4KC1E *	.02/0.010
		For AC voltages 220 to 250 V (RC)	5	LA4KA1U ▶	.02/0.010

- ▲ Protection by 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 2 times normal).

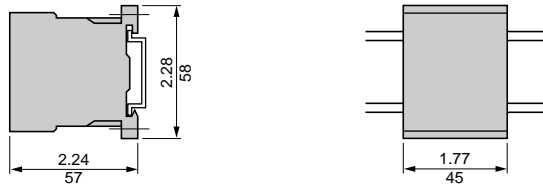


IEC Type Industrial Control Relays Control Relays CA2K, CA3K and CA4K Approximate Dimensions, Wiring Diagrams

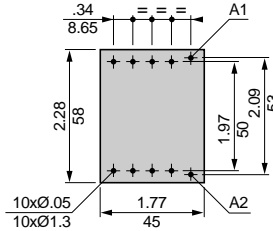
CA2, CA3, CA4K control relays On panel



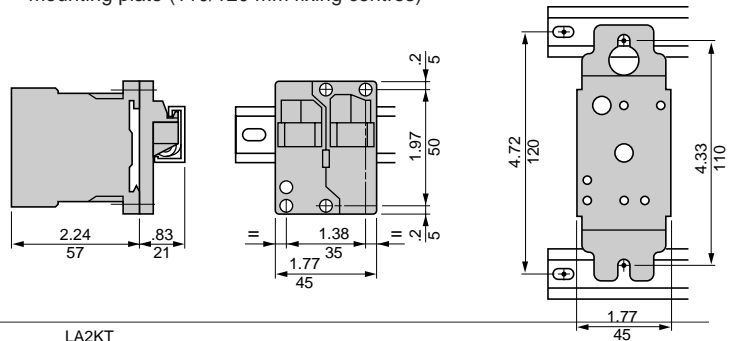
On AM1DP200 or AM1DE200 track (35 mm DIN3)



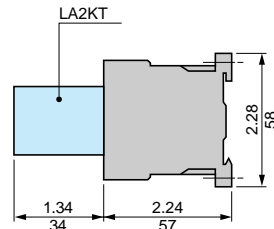
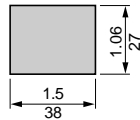
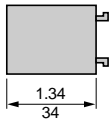
On printed circuit board



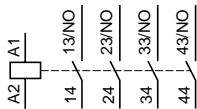
On asymmetrical rail with LA9D973 clip-on mounting plate or DX1AP25 mounting plate (110/120 mm fixing centres)



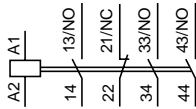
LA2KT electronic time delay contact blocks



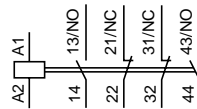
CA2, CA3, CA4K control relays 4 N/O



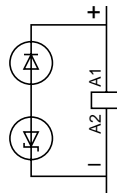
3 N/O + 1 N/C



2 N/O + 2 N/C



CA4K coil (suppressor scheme)



LA1K instantaneous auxiliary contact blocks for CA2, CA3, CA4-K

2 N/O



2 N/C



1 N/O + 1 N/C

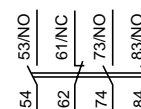


for CA2, CA3K

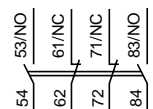
4 N/O



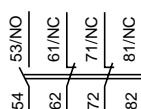
3 N/O + 1 N/C



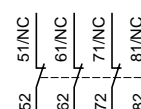
2 N/O + 2 N/C



1 N/O + 3 N/C



4 N/C



LA2KT electronic time delay contact blocks for CA2, CA3, CA4-K

1 C/O

