

TeSys Control

SK, K, Deca Control relays



TeSys SK, K Relays	
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Control
relays

Technical Data for Designers B7/13

TeSys Control

SK, SKE Mini control relays

Product references

PB121522.tif



CA2SK11●●

Mini control relays

- Width of mini control relays 27 mm.
- Mounting on 35 mm rail.
- Connection by connectors.

Control circuit supply	Auxiliary contacts		Basic reference, to be completed by adding the voltage code ⁽¹⁾
a.c. supply	2	–	CA2SK20●●
	1	1	CA2SK11●●
d.c. supply	2	–	CA3SK20●●
	1	1	CA3SK11●●

PB121523.eps



CA2SKE20●●

Mini control relay with alternating contacts

This mini control relay with alternating contacts (see function diagram page B7/17) makes it possible to automatically split the operating time between 2 circuits of a redundant system. By regularly energising the “safety circuits”, this device makes it possible to ensure that they are operating correctly.

- Width of mini control relay 45 mm.
- Fixing by Ø4 screws.
- Connection by connectors.
- Cannot be fitted with front-mounted auxiliary contact block.
- Cannot be fitted with coil suppressor module.

Control circuit supply	Auxiliary contacts		Basic reference, to be completed by adding the voltage code ⁽¹⁾
a.c. supply	2	–	CA2SKE20●●

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

Mini control relays CA2SK and CA2SKE

Volts ~ 50/60 Hz	24	48	110	120	220	230	240	380	400
Code	B7	E7	F7	G7	M7	P7	U7	Q7	V7

Mini control relays CA3SK

Volts ---	12	24	36	48	72
Code	JD	BD	CD	ED	SD

Control relays

TeSys Control

SK, SKE Mini control relays - Contact block - Suppressor

Product references



LA1SK●●

Instantaneous auxiliary contact blocks

Clip-on front mounting

For use on control relays	Maximum number of blocks per contactor	Composition		Reference
CA2SK20	1		–	LA1SK20
		–		LA1SK02
				LA1SK11



LA4SK●1●

Suppressor modules

Connection without need for tools by clipping onto right-hand side of contactor

For use on control relays	Type	For voltages	Sold in lots of	Unit reference
CA2SK and CA3SK	Varistor (1)	~ and ≍ 24 V...48 V	10	LA4SKE1E
		~ and ≍ 110 V...250 V	10	LA4SKE1U
	Diode (2)	≍ 24 V...250 V	10	LA4SKC1U

- (1) Protection provided by limiting the transient voltage to $2 U_c$ max.
Maximum reduction of transient voltage peaks.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).
- (2) No overvoltage or oscillating frequency.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).



TeSys Control

K Control relays

Product references

PE123768.epps



CA2KN22●●

Control relays for a.c. control circuit

- Mounting on 35 mm rail or Ø4 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⁾

Screw clamp connections		
4.5 VA	4 –	CA2KN40●●
	3 1	CA2KN31●●
	2 2	CA2KN22●●

Spring terminal connections		
4.5 VA	4 –	CA2KN403●●
	3 1	CA2KN313●●
	2 2	CA2KN223●●

Faston connectors, 1 x 6.35 or 2 x 2.8		
4.5 VA	4 –	CA2KN407●●
	3 1	CA2KN317●●
	2 2	CA2KN227●●

Solder pins for printed circuit boards		
4.5 VA	4 –	CA2KN405●●
	3 1	CA2KN315●●
	2 2	CA2KN225●●

Control relays for d.c. control circuit

- Mounting on 35 mm rail or Ø4 screw fixing.
- Screws in the open "ready-to-tighten" position.

Screw clamp connections		
3 W	4 –	CA3KN40●●
	3 1	CA3KN31●●
	2 2	CA3KN22●●

Spring terminal connections		
3 W	4 –	CA3KN403●●
	3 1	CA3KN313●●
	2 2	CA3KN223●●

Solder pins for printed circuit boards		
3 W	4 –	CA3KN405●●
	3 1	CA3KN315●●
	2 2	CA3KN225●●

(1) Please check the availability of your variant in the index page B7/12. The SEARCH function of your viewer can be used.
Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Control relays CA2K (0.8...1.15 Uc) (0.85...1.1 Uc)	12	20	24 ⁽²⁾	36	42	48	110	115	127	220/230	230	230/240	380/400	400	400/415	440	500	660/690
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 CA3K (0.8...1.15 Uc)	12	20	24 ⁽²⁾	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**.

(2) When connecting an electronic sensor or timer in series with the coil of the control relay, select a 20 V coil (~ code Z7, ... code ZD) so as to compensate for the incurred voltage drop.



PE123768.buf



CA2KN●●5●●

Control relays

PE123770.lif



CA3KN●●3●●

TeSys Control

K Control relays

Product references

PB123771_eps



CA4KN40●●●

Low consumption control relays d.c. control circuit

- Mounting on 35 mm rail or Ø4 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⁾
Screw clamp connections		
1.8 W	4 –	CA4KN40●●
	3 1	CA4KN31●●
	2 2	CA4KN22●●
Spring terminal connections		
1.8 W	4 –	CA4KN403●●
	3 1	CA4KN313●●
	2 2	CA4KN223●●
Faston connectors, 1 x 6.35 or 2 x 2.8		
1.8 W	4 –	CA4KN407●●
	3 1	CA4KN317●●
	2 2	CA4KN227●●
Solder pins for printed circuit boards		
1.8 W	4 –	CA4KN405●●
	3 1	CA4KN315●●
	2 2	CA4KN225●●

(1) Please check the availability of your variant in the index page B7/12. The SEARCH function of your viewer can be used.

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

Control relays CA4K (Wide range coil: 0.7...1.3 Uc)

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

Coil with integral suppression device fitted as standard, by bi-directional peak limiting diode.



Control relays



TeSys Control

K Contact blocks - Time delays

Product references

Instantaneous auxiliary contact blocks

Clip-on front mounting, 1 per control relay

Connection	Composition		Reference
			
Screw clamp terminals	2	–	LA1KN20
	–	2	LA1KN02
	1	1	LA1KN11
	4	–	LA1KN40 ⁽¹⁾
	3	1	LA1KN31 ⁽¹⁾
	2	2	LA1KN22 ⁽¹⁾
	1	3	LA1KN13 ⁽¹⁾
Spring terminals	–	4	LA1KN04 ⁽¹⁾
	2	–	LA1KN203
	–	2	LA1KN023
	1	1	LA1KN113
	4	–	LA1KN403 ⁽¹⁾
	3	1	LA1KN313 ⁽¹⁾
	2	2	LA1KN223 ⁽¹⁾
Faston connectors 1 x 6.35 or 2 x 2.8	1	3	LA1KN133 ⁽¹⁾
	–	4	LA1KN043 ⁽¹⁾
	2	–	LA1KN207
	4	–	LA1KN407 ⁽¹⁾
3	1	LA1KN317 ⁽¹⁾	



LA1KN22



LA1KN003




LA1KN007



Electronic time delay contact blocks

- Relay output with common point changeover contact, \sim or \equiv 240 V, 2 A maximum
- Control voltage 0.85...1.1 U_c
- 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
V		s		
\sim or \equiv 24...48	On-delay	1...30	1	LA2KT2E
\sim 110...240	On-delay	1...30	1	LA2KT2U

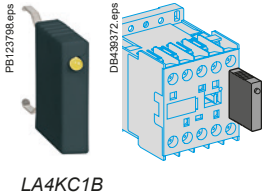
Other versions Electronic timers type RE4.
Please consult your Regional Sales Office.

⁽¹⁾ Block of 4 contacts for use on CA2K and CA3K.



LA2KT2E

Control relays



LA4KC1B

Suppressor modules incorporating LED indicator

Mounting and connection	Type	For voltages	Sold in lots of	Unit reference
Clips onto front of relay with locating device. No tools required.	Varistor ⁽¹⁾	~ and --- 12...24 V	5	LA4KE1B
		~ and --- 32...48 V	5	LA4KE1E
		~ and --- 50...129 V	5	LA4KE1FC
		~ and --- 130...250 V	5	LA4KE1UG
Diode + Zener diode ⁽²⁾	---	12...24 V	5	LA4KC1B
		32...48 V	5	LA4KC1E
RC ⁽³⁾		~ 110...250 V	5	LA4KA1U

Mounting accessories

Description	Application		Sold in lots of	Unit reference
Mounting plates	On 2 U _T rails	110/120 mm fixing centres	10	DX1AP25

Marking accessories

Description	Application		Sold in lots of	Unit reference
Marker holder	Clip-on fixing on front face	–	100	LA9D90
Clip-in markers	4 maximum per relay	Strips of 10 identical numbers 0 to 9	25	AB1R● ⁽⁴⁾
		Strips of 10 identical capital letters A to Z	25	AB1G● ⁽⁴⁾



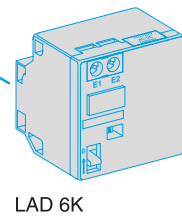
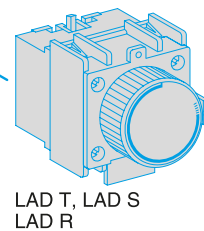
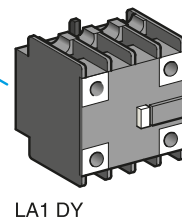
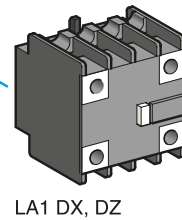
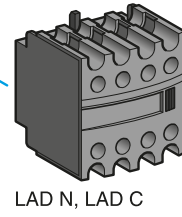
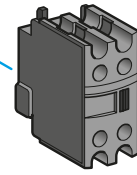
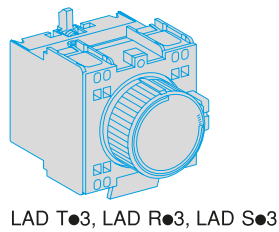
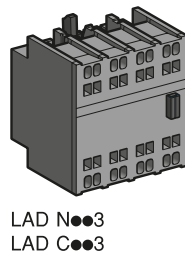
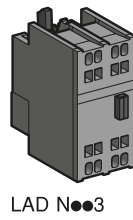
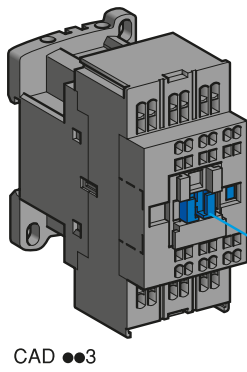
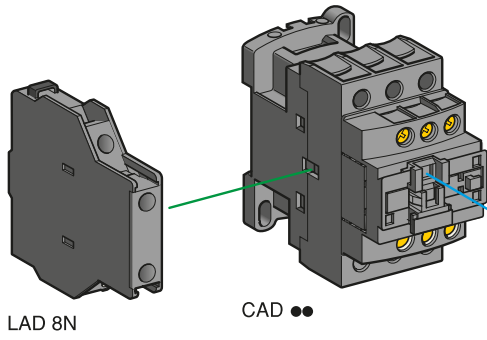
LA9D90



AB1R9

- ⁽¹⁾ Protection provided by limiting the transient voltage to 2 U_c max.
Maximum reduction of transient voltage peaks.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).
- ⁽²⁾ No overvoltage or oscillating frequency.
Polarised component.
Slight increase in drop-out time (1.1 to 1.5 times the normal time).
- ⁽³⁾ Protection by limiting the transient voltage to 3 U_c max. and limitation of the oscillating frequency.
Slight increase in drop-out time (1.2 to 2 times the normal time).
- ⁽⁴⁾ Complete the reference by replacing the dot with the required character.





Control relays

See page opposite for mounting possibilities according to control relay type and rating



CAD50●●



CAD503●●



LADN22



LA1DY20

Control relays for connection by screw clamp terminals

Type	Number of contacts	Composition	Basic reference, to be completed by adding the control voltage code ⁽¹⁾
Instantaneous	5	5 —	CAD50●● ⁽³⁾
		3 2	CAD32●● ⁽³⁾

Control relays for connection by spring terminals

Instantaneous	5	5 —	CAD503●●
		3 2	CAD323●●

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

Number of contacts	Maximum number per relay		Composition		Reference
	Clip-on mounting front	side	1	2	
2	1	—	1	1	LADN11
	—	1 on LH side	1	1	LAD8N11 ⁽⁶⁾
	1	—	2	—	LADN20
	—	1 on LH side	2	—	LAD8N20 ⁽⁶⁾
	1	—	—	2	LADN02
	—	1 on LH side	—	2	LAD8N02 ⁽⁶⁾
4 ⁽⁴⁾	1	—	2	2	LADN22 LADN22S ⁽⁷⁾
			1	3	LADN13
			4	—	LADN40
			—	4	LADN04
			3	1	LADN31
			2	2	LADC22

Including 1 N/O and 1 N/C make before break.

With dust and damp protected contacts, for use in particularly harsh industrial environments

Number of contacts	Maximum number per relay	Composition		Reference	
		Front mounting protected ⁽⁵⁾	not protected	1	2
2	1	2 — —	—	—	LA1DX20
		— 2 —	—	—	LA1DX02
		2 — 2	—	—	LA1DY20 ⁽⁸⁾
4 ⁽⁴⁾	1	2 — —	2	—	LA1DZ40
		2 — —	1	1	LA1DZ31

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for contact blocks LAD 8 and blocks with dust and damp protected contacts.

For all other instantaneous auxiliary contact blocks, add the digit 3 to the end of the references selected above.

Example: LADN11 becomes LADN113.

⁽¹⁾ Please check the availability of your variant in the index page B7/12. The SEARCH function of your viewer can be used. Standard control circuit voltages (for other voltages, please consult your Regional Sales Office).

a.c. supply												
Volts ~	24	42	48	110	115	220	230	240	380	400	415	440
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7
d.c. supply (coils with integral suppression device fitted as standard)												
Volts —	12	24	36	48	60	72	110	125	220	250	440	
U from 0.7 to 1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD	
Low consumption (coils with integral suppression device fitted as standard)												
Volts —	5	12	20	24	48	110	220	250				
Code	AL	JL	ZL	BL	EL	FL	ML	UL				

⁽²⁾ LC: low consumption.

⁽³⁾ To order control relays with connection by lugs, add the digit 6 to the end of the selected reference.

Example: CAD50●● becomes CAD506●●.

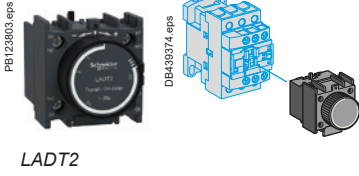
⁽⁴⁾ Blocks with 4 auxiliary contacts cannot be used on low consumption control relays.

⁽⁵⁾ Product fitted with 4 earth screen continuity terminals.

⁽⁶⁾ These contact blocks are allowed with AC coil control relay only.

⁽⁷⁾ With red front face - for safety chain indication.

⁽⁸⁾ With 2 earth screen continuity poles.



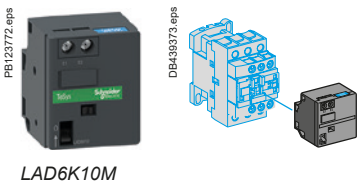
Time delay auxiliary contact blocks for connection by screw clamp terminals ⁽¹⁾

Number and type of contacts	Maximum number per relay Front mounting	Time delay		Reference
		Type	Range	
1 N/C and 1 N/O	1	On-delay	0.3...3 s ⁽²⁾	LADT0
			1...30 s	LADT2
			10...180 s	LADT4
		Off-delay	1...30 s ⁽³⁾	LADS2
			0.3...3 s ⁽²⁾	LADR0
			1...30 s	LADR2
			10...180 s	LADR4

(Sealing cover: see page B8/42)

Time delay auxiliary contact blocks for connection by spring terminals

Add the digit 3 to the references selected above. Example: LADT0 becomes LADT03.



Mechanical latch blocks ⁽⁴⁾

Unlatching control	Maximum number per relay Front mounting	Basic reference to be completed ⁽⁵⁾
Manual or electric	1	LAD6K10●

Suppressor modules

These modules clip onto the top of the control relay and the electrical connection is instantly made. Fitting of an input module is still possible.

RC circuits (Resistor-Capacitor)

- Effective protection for circuits highly sensitive to "high frequency" interference.
- Voltage limited to 3 Uc maximum and oscillating frequency limited to 400 Hz maximum.
- Slight time delay on drop-out (1.2 to 2 times the normal time).

For mounting on	Operational voltage	Reference
CAD ~	~ 24...48 V	LAD4RCE
	~ 50...127 V	LAD4RCG
	~ 110...250 V	LAD4RCU

Varistors (peak limiting)

- Protection provided by limiting the transient voltage value to 2Uc maximum.
- Maximum reduction of transient voltage peaks.
- Slight time delay on drop-out (1.1 to 1.5 times the normal time).

CAD ~	~ 24...48 V	LAD4VE
	~ 50...127 V	LAD4VG
	~ 110...250 V	LAD4VU

Freewheel diode

- No overvoltage or oscillating frequency.
- Increase in drop-out time (6 to 10 times the normal time).
- Polarised component.

CAD ---	--- 5...600 V	LAD4DDL ⁽⁶⁾
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Bidirectional peak limiting diode ⁽⁷⁾

- Protection provided by limiting the transient overvoltage value to 2Uc maximum.
- Maximum reduction of transient voltage peaks.

CAD ~	~ 24 V	LAD4TB
	~ 72 V	LAD4TS
CAD ---	--- 24 V	LAD4TBDL
	--- 72 V	LAD4TSDL
	--- 125 V	LAD4TGD
	--- 250 V	LAD4TUDL

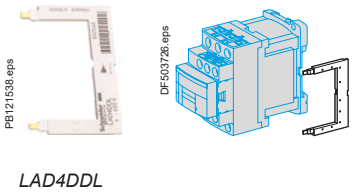
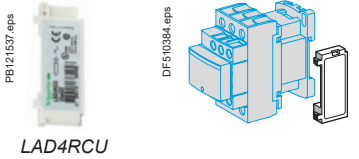
(1) These contact blocks cannot be used on low consumption control relays.
 (2) With extended scale from 0.1 to 0.6 s.
 (3) With switching time of 40 ms ±15 ms between opening of the N/C contact and closing of the N/O contact.
 (4) Power should not be simultaneously applied or maintained to the mechanical latching block of the CADN. The duration of the control signal to the mechanical latching block and the CADN should be ≥ 100 ms.
 (5) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts ~ and ---	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	B	C	E	EN	K	F	M	U	Q

(6) Not compatible with low consumption control relays.
 (7) CAD●● --- and low consumption control relays are fitted with a built-in bi-directional peak limiting diode suppressor as standard. On control relays produced after 15th July 2004, this diode is removable. It can therefore be replaced by the user (see references LAD4T●● above). It can also be replaced by a freewheel diode LAD4DDL.



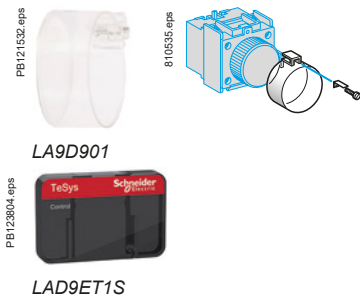
Control relays



TeSys Control

Deca Accessories, spare coils

Product references



Accessories (to be ordered separately)

Description	For mounting on	Sold in lots of	Unit reference
For marking			
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm	CAD, LAD (4 contacts)	10	LAD21
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm	LAD (2 contacts), LADT		LAD22
"SIS Label" labelling software for legends LAD21 and LAD22, supplied on CD-Rom	Multi-language version: English, French, German, Italian, Spanish	1	XYB2U
Legend holder, snap-in, 8 x 18 mm	LC1D09...38 LC1DT20...40 LADN (4 contacts) LADT, LADR	100	LAD90
For protection			
Sealing cover	LADT, LADR	1	LA9D901
Safety cover preventing access to the moving contact carrier	CAD	1	LAD9ET1
Red cover (for safety chain indication)	CAD	1	LAD9ET1S

Spare parts: coils

Specifications

- Average consumption at 20 °C:
 - inrush ($\cos \varphi = 0.75$) 50/60 Hz: 70 VA at 50 Hz,
 - sealed ($\cos \varphi = 0.3$) 50/60 Hz: 8 VA at 60 Hz,
- Operating range ($\theta < 60$ °C): 0.85 to 1.1 U_c

Control circuit voltage U_c	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Reference ⁽¹⁾
V	Ω	H	
50/60 Hz			
12	1.33	0.05	LXD1J7
24	5.37	0.22	LXD1B7
32	10.1	0.39	LXD1C7
42	17	0.67	LXD1D7
48	21.7	0.87	LXD1E7
110	124.1	4.6	LXD1F7
115	129.8	5	LXD1FE7
120	150.6	5.4	LXD1G7 ⁽²⁾
200	410.7	15	LXD1L7
208	430.4	16	LXD1LE7 ⁽²⁾
220	515.4	18	LXD1M7 ⁽³⁾
230	538.6	20	LXD1P7
240	562.3	22	LXD1U7
277	800.7	29	LXD1W7 ⁽²⁾
380	1551	55	LXD1Q7 ⁽⁴⁾
400	1633	60	LXD1V7
415	1694	65	LXD1N7
440	1993	73	LXD1R7
480	2398	87	LXD1T7 ⁽²⁾
500	2499	95	LXD1S7
575	3294	125	LXD1SC7
600	3810	136	LXD1X7
660	4656	165	LXD1YC7
690	5020	180	LXD1Y7

⁽¹⁾ The last 2 digits in the reference represent the voltage code.

⁽²⁾ Coil for use only on 60 Hz.

⁽³⁾ Suitable for use on 230 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see pages B8/84 and B8/86).

⁽⁴⁾ Suitable for use on 400 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see pages B8/84 and B8/86).


TeSys Control

SK, K, Deca Control relays

Product references

CA2KN223B7	CA2SK20E7	CA3SK20BD	CAD32JD
CA2KN223F7	CA2SK20F7	CA3SK20JD	CAD32JL
CA2KN223P7	CA2SK20G7	CA4KN223BW3	CAD32L7
CA2KN223P72	CA2SK20M7	CA4KN225BW3	CAD32M7
CA2KN22B7	CA2SK20P7	CA4KN22BW3	CAD32MD
CA2KN22B72	CA2SK20Q7	CA4KN22EW3	CAD32N7
CA2KN22D7	CA2SK20T7	CA4KN22FW3	CAD32P7
CA2KN22E7	CA2SK20U7	CA4KN22SW3	CAD32Q7
CA2KN22F7	CA2SK20UE7	CA4KN313BW3	CAD32R7
CA2KN22F72	CA2SKE20B7	CA4KN31BW3	CAD32SD
CA2KN22FC7	CA2SKE20G7	CA4KN31FW3	CAD32T7
CA2KN22FE7	CA2SKE20M7	CA4KN31SW3	CAD32U7
CA2KN22G7	CA2SKE20P7	CA4KN403BW3	CAD32UD
CA2KN22G72	CA2SKE20Q7	CA4KN40BW3	CAD32V7
CA2KN22L7	CA2SKE20T7	CA4KN40EW3	CAD32X7
CA2KN22M7	CA2SKE20U7	CA4KN40FW3	CAD32XD
CA2KN22M72	CA3KN223BD	CAD323B7	CAD32Y7
CA2KN22N7	CA3KN223BD3	CAD323BD	CAD503BD
CA2KN22P7	CA3KN22BD	CAD323BL	CAD503BL
CA2KN22P72	CA3KN22BD3	CAD323E7	CAD503FD
CA2KN22Q7	CA3KN22ED	CAD323F7	CAD503FE7
CA2KN22R7	CA3KN22ED3	CAD323FE7	CAD503P7
CA2KN22T7	CA3KN22FD	CAD323G7	CAD506B7
CA2KN22U7	CA3KN22FD3	CAD323JD	CAD506BD
CA2KN22V7	CA3KN22GD	CAD323P7	CAD506ED
CA2KN313P72	CA3KN22GD3	CAD326B7	CAD506F7
CA2KN315F7	CA3KN22JD	CAD326BD	CAD506FD
CA2KN31B7	CA3KN22MD	CAD326BL	CAD506KD
CA2KN31D7	CA3KN22MD3	CAD326CD	CAD506M7
CA2KN31E7	CA3KN22ND	CAD326E7	CAD506MD
CA2KN31F7	CA3KN22SD	CAD326F7	CAD506P7
CA2KN31G7	CA3KN313BD	CAD326FD	CAD506R7
CA2KN31K7	CA3KN313BD3	CAD326G7	CAD50B7
CA2KN31M7	CA3KN315BD	CAD326GD	CAD50BD
CA2KN31M72	CA3KN317SD	CAD326K7	CAD50BL
CA2KN31P7	CA3KN31BD	CAD326KD	CAD50D7
CA2KN31P72	CA3KN31BD3	CAD326L7	CAD50E7
CA2KN31U7	CA3KN31ED	CAD326M7	CAD50ED
CA2KN31V7	CA3KN31ED3	CAD326MD	CAD50F7
CA2KN40B7	CA3KN31FD	CAD326P7	CAD50FD
CA2KN40B72	CA3KN31FD3	CAD326Q7	CAD50FE7
CA2KN40E7	CA3KN31GD	CAD326R7	CAD50G7
CA2KN40F7	CA3KN31GD3	CAD326SD	CAD50GD
CA2KN40FC72	CA3KN31JD	CAD326SL	CAD50K7
CA2KN40G7	CA3KN31MD	CAD326U7	CAD50L7
CA2KN40M7	CA3KN31MD3	CAD326V7	CAD50M7
CA2KN40N7	CA3KN31ND3	CAD326VD	CAD50MD
CA2KN40P7	CA3KN31UD	CAD32B7	CAD50N7
CA2KN40T7	CA3KN403BD	CAD32BD	CAD50P7
CA2KN40U7	CA3KN403BD3	CAD32BL	CAD50Q7
CA2SK11B7	CA3KN40BD	CAD32CD	CAD50R7
CA2SK11E7	CA3KN40BD3	CAD32CD	CAD50SD
CA2SK11F7	CA3KN40ED	CAD32D7	CAD50U7
CA2SK11G7	CA3KN40ED3	CAD32E7	CAD50UD
CA2SK11M7	CA3KN40EPD	CAD32EL	CAD50Y7
CA2SK11P7	CA3KN40FD	CAD32F7	
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CA2SK11U7	CA3KN40GD	CAD32FD	
CA2SK11UE7	CA3KN40GD3	CAD32FE7	
CA2SK11V7	CA3KN40MD	CAD32FL	
CA2SK20B7	CA3KN40MD3	CAD32G7	
CA2SK20D7	CA3SK11BD	CAD32GD	

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