

Construction Data

The load switches of the C, CA and CAD-series offer a solution for most cam switch applications. Different contact designs, contact materials and terminals allow for their use as control switches, instrumentation switches and motor control switches, as well as in electronic circuitry and in aggressive environments according to IEC 60947-3 and VDE 0660 part 107.

The stage is the basis for all switches and can be supplied with a maximum of 2 contacts. The terminals are accessible from the side. CA and CAD switches are supplied with open terminals to facilitate wiring and are protected against accidental finger contact according to EN 50274, VDE 0660 part 514 and BGV A3. Switches up to type CA25B are supplied with captive screws with clamping plates. The switch types CA40-CA63 are supplied with box terminals. Captive plus-minus terminal screws and integrated screwdriver guides facilitate wiring.

If a positive manual operation or a higher DC rating is required, many of these switches can be fitted with a snap action latching mechanism - suffix „S“ - to the switch type.

The cam-operated switches of the L-series are continuous current rated for off-load switching. They may be used to switch resistive or low inductive loads.

CA and CAD Switches (CA4-CA25B)

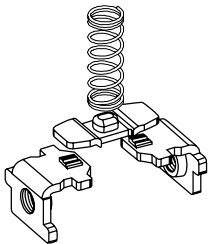


CA Switches (CA40-CA63)



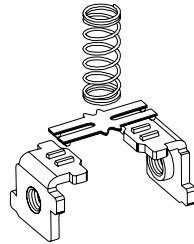
Special Contact Systems

CA4/CA4-1



High contact reliability by multiple cross-point contacts, electronic compatible, CA4 with 1 μ and CA4-1 with 35 μ gold plating.

CAD4-1/CAD11/CAD12 (Until 31/12/2012)



High contact reliability by H-bridge design with "cross-wire" contacts. The contact system with gold-plated contacts (CAD12 with silver contact) allows for low voltages, electronic compatible.

C Switches



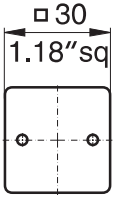
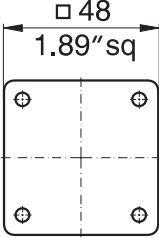
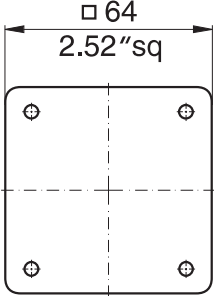
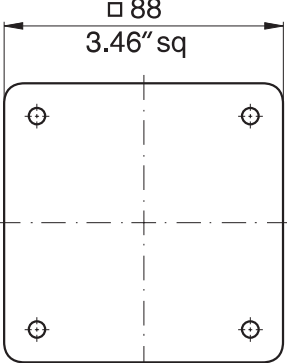
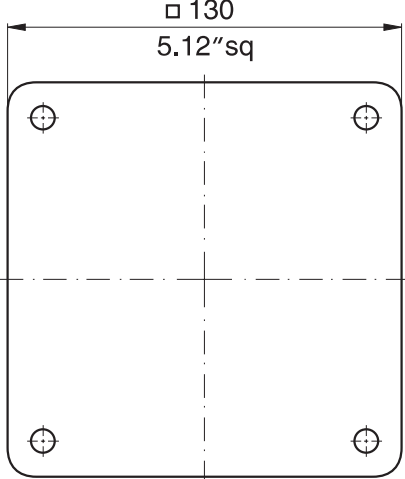
L Switches



Above illustrates the standard terminal positions.

Type	Size	Possible Switching Angles	Max. No. of Stages
CA4, CA4-1, CAD4-1	S00	30°, 45°, 60°, 90°	9
CA10-CA25	S0	30°, 45°, 60°, 90°	12
CA10S-CA25S	S0	60°	on request
CAD11, CAD12	S0	30°, 45°, 60°, 90°	12
CA10B-CA25B	S1	30°, 45°, 60°, 90°	12
C26, C32, C42	S1	20°, 30°, 45°, 60°, 90°	12
C26S, C32S, C42S	S1	60°	on request
CA40, CA50, CA63	S1	30°, 45°, 60°, 90°	12
C43, C80, C125, C200-4	S2	20°, 30°, 45°, 60°, 90°	12
C315	S3	20°, 30°, 45°, 60°, 90°	12
L350/51, L630/31, L1000/01, L1250/51	S2	30°, 45°, 60°, 90°	12
L400, L600, L800, L1200, L1600, L2000	S3	30°, 45°, 60°, 90°	12

Nominal Ratings

Switch Size	Type	According to IEC 60947-3/VDE 0660 part 107				
		Insulation Voltage ¹ U_i V	Thermal Current I_u/I_{th} A	Motor Rating 3 x 380 V-440 V AC-23 AC-3		
				kW	kW	
S00		CA4	440	10	3	2,2
		CA4-1	440	10	3	2,2
		CAD4-1	440	5	-	-
S0		CA10	690	20	7,5	5,5
		CA11	690	20	7,5	5,5
		CA20	690	25	11	7,5
		CA25	690	32	15	11
		CAD11	600	6	-	-
		CAD12 <small>(Until 31/12/2012)</small>	600	6	-	-
S1		CA10B	690	20	7,5	5,5
		CA11B	690	20	7,5	5,5
		CA20B	690	25	11	7,5
		CA25B	690	32	15	11
		C26	690	32	15	11
		C32	690	50	22	15
		C42	690	63	30	18,5
		CA40	690	40	18,5	15
		CA50	690	50	22	18,5
		CA63	690	63	30	18,5
S2		C43	690	63	30	18,5
		C80	690	115	45	30
		C125	690	150	75	37
		C200-4	690	200	75	37
		L350	690	350	90	37
		L351	690	350	90	37
		L630	690	630 ²	90	37
		L631	690	630 ²	90	37
		L1000	690	1000 ²	90	37
		L1001	690	1000 ²	90	37
		L1250	690	1250 ²	90	37
		L1251	690	1250 ²	90	37
		S3		C315	690	315
C316³	1000			315	132	55
L400	690			500	132	55
L600	690			800 ²	132	55
L800	690			1100 ²	132	55
L1200	690			1450 ²	132	55
L1600	690			1900 ²	132	55
L2000	690			2400 ²	132	55

For further technical details, refer to pages 42-45.
To furnish with gold contacts and quick connects see page 4.

¹Valid for lines with grounded common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems

Switch Function and Configuration

C, CA, CAD Switches

Function	Escutch. Plate	Type/Handle	Code	Stages	Connection Diagram
		CA4 CA4-1 CA10- CAD.. CA10B- CAD4-1 CA25 CA25B			

Voltmeter Switches with „OFF“

3 phase to neutral						WAA005	2	
						WAA005	2	
						WAA005	2	
						WAA005	2	
						WAA005	2	
3 phase to phase and 3 phase to neutral						A007-600	3	
						A007-620	3	
						A007-621	3	
						A007-622	3	
						A007-623	3	
						A007-624	3	
2 separate 3 phase with center „OFF“						WAA008	4	
						WAA008	4	
						WAA008	4	
						WAA008	4	