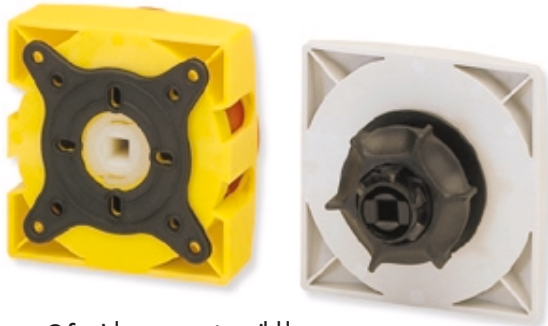


Cam Switches



CN Series Overview

- The CN Series represents the latest generation of manually-operated switching devices
- Available with 12, 16, 20, 25 and 32 Amp rating
- Manufactured from heat resistant and class V2 halogen free and self-extinguishing materials, providing a high mechanical life



- Special arrangements available upon

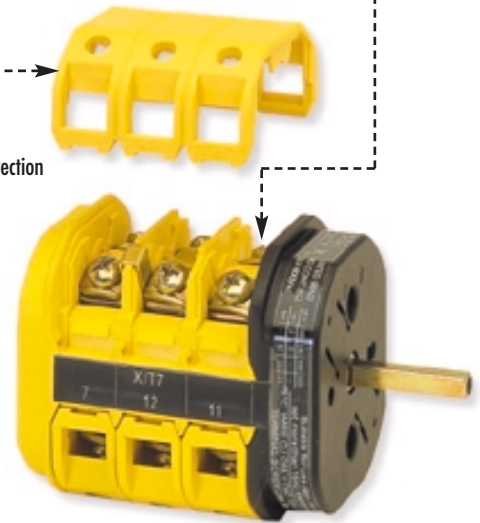
Customer		ORDER FORM																																																																																																																														
☐ Inquiry ☒ Order		Particular information: Telephone:																																																																																																																														
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Series Version Rated operational current I _e (A) Rated operational voltage U _e (V) Utilization category Rear mounting ☐ Base mounting ☐ Label carrier YES ☐ NONE ☐ Degree of protection IP Quantity to be assembled Delivery time		Notes																																																																																																																														

When ordering, this special order form must be used to prevent mistakes during production

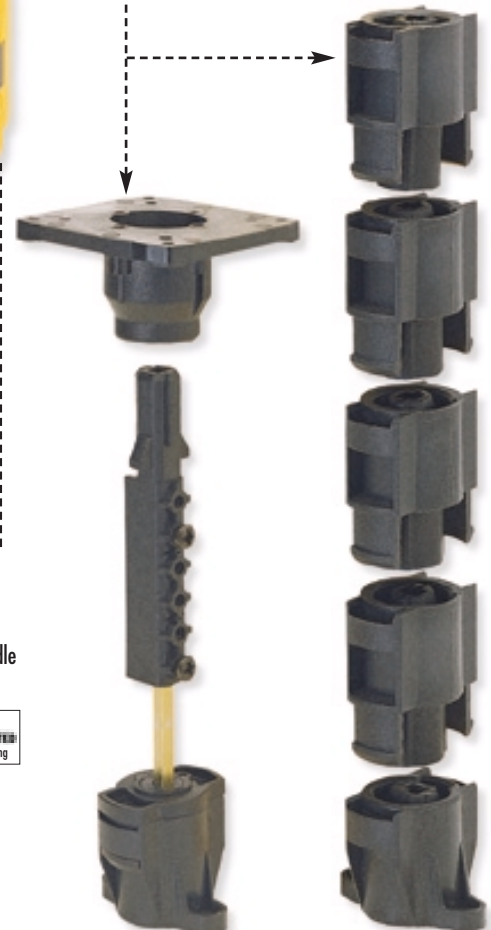
Page: TE 01

- Screws provided with captive self-lifting cable clamp, which are supplied in open position, for quick and easy wiring

- IP20 Finger safe protection of the terminals

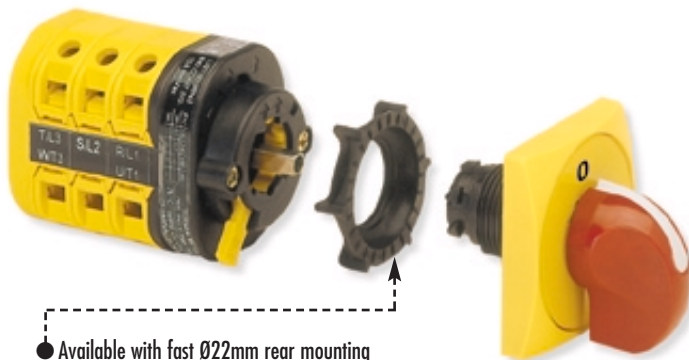


- New modular and shaft extensions



- 30°, 45°, 60° and 90° Switching angles

- IP65 rated operating handle



- Available with fast Ø22mm rear mounting

Cam Switches

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Selection Table / Versions

How to order

CN							
-----------	--	--	--	--	--	--	--

Range	Diagram Number	Type
012 = 12 A	See Data Sheet	(mounting plate)
016 = 16 A	0001 = 01	
020 = 20 A	0002 = 02	
025 = 25 A	0003 = 03	
032 = 32 A	etc. etc.	

R Type switch body
for rear mounting



G Type switch body for
Ø22mm rear center mounting

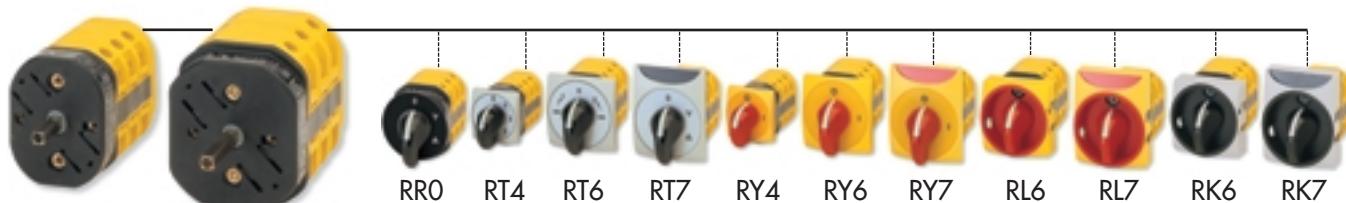


B Type switch body
for base mounting

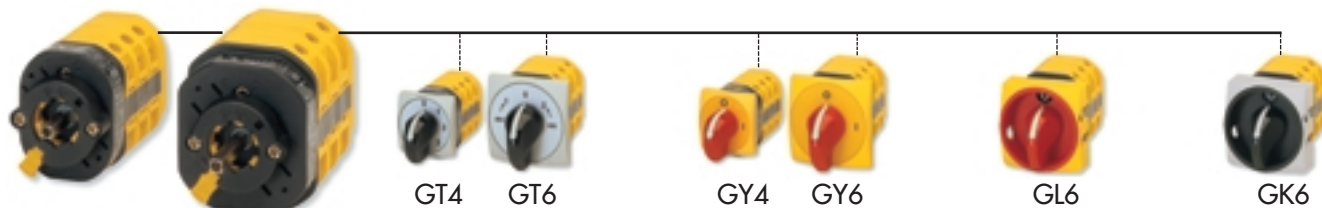


PREFIX	Size	IEC 947-3				UL508	
		I _{th} A	AC21A A	AC23A kW (400V)	AC3 kW (400V)	I _{th} A	3 x 240 V HP
CN012...	1	12	12	4	3.5	12	2
CN016...	1	16	16	7.5	5.5	16	3
CN020...	1	20	20	9	7.5	20	7.5
CN025...	2	25	32	15	10	32	10
CN032...	2	40	40	18.5	15	40	15

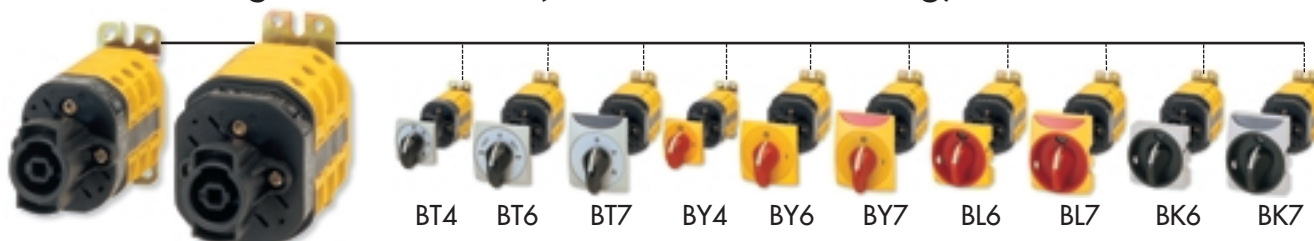
Rear Mounting Cam Switches



Ø22mm Rear Center Mounting Cam Switches



Base Mounting Cam Switches (with door interlocking)



Accessories for Cam Switches and Rotary Disconnects



Shaft extensions

- Adapts the switches with door interlocking device
- Different mounting lengths, up to 8 inches (200mm)



Modular extensions

- Adapts the switches with door interlocking device to different mounting lengths
- Includes four forms that overlap
- Approximately 1/2" (12mm) per extension fitting



Single handle

- Red or black



Reversible black or red label for engraving

- For front trim plates with legend label carrier



Protection shrouds for disconnect terminals

- Increase the degree of protection



Various Mounting Plates

- For DIN rail or base mounting



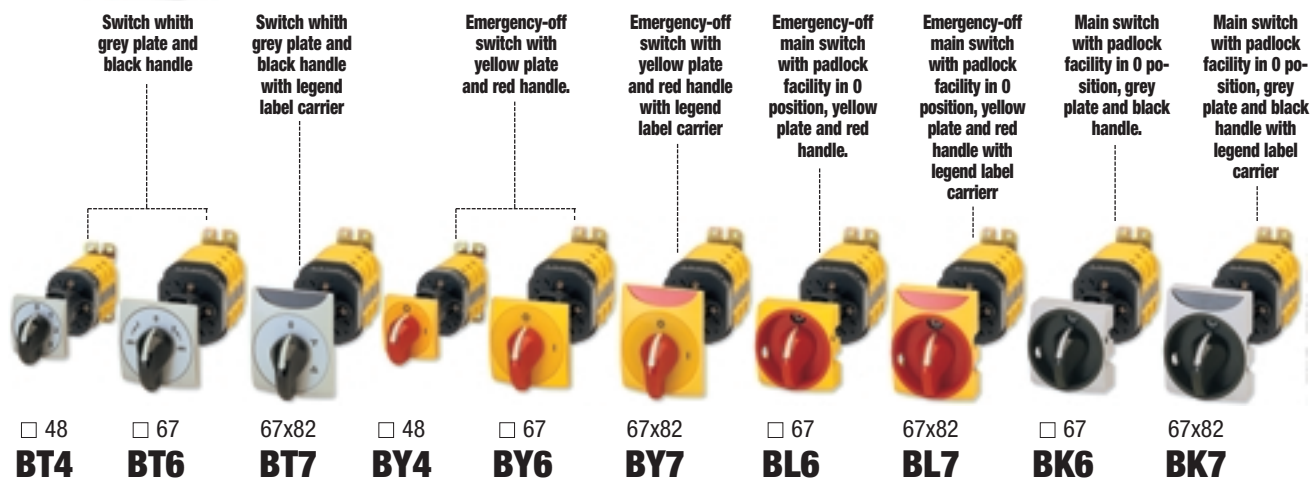
Cam Switches



Selection table / Versions



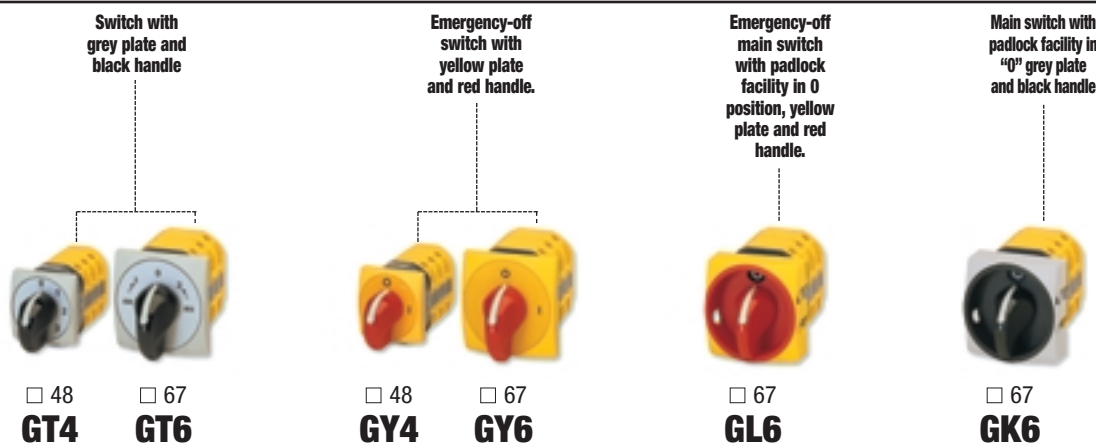
Base mounting (with door interlocking)



	□ 48 BT4	□ 67 BT6	67x82 BT7	□ 48 BY4	□ 67 BY6	67x82 BY7	□ 67 BL6	67x82 BL7	□ 67 BK6	67x82 BK7
12 A	CN012...BT4	CN012...BT6	CN012...BT7	CN012...BY4	CN012...BY6	CN012...BY7	CN012...BL6	CN012...BL7	CN012...BK6	CN012...BK7
16 A	CN016...BT4	CN016...BT6	CN016...BT7	CN016...BY4	CN016...BY6	CN016...BY7	CN016...BL6	CN016...BL7	CN016...BK6	CN016...BK7
20 A	CN020...BT4	CN020...BT6	CN020...BT7	CN020...BY4	CN020...BY6	CN020...BY7	CN020...BL6	CN020...BL7	CN020...BK6	CN020...BK7
25 A		CN025...BT6	CN025...BT7		CN025...BY6	CN025...BY7	CN025...BL6	CN025...BL7	CN025...BK6	CN025...BK7
32 A		CN032...BT6	CN032...BT7		CN032...BY6	CN032...BY7	CN032...BL6	CN032...BL7	CN032...BK6	CN032...BK7



Rear center mounting Ø22



	□ 48 GT4	□ 67 GT6	□ 48 GY4	□ 67 GY6	□ 67 GL6	□ 67 GK6
12 A	CN012...GT4	CN012...GT6	CN012...GY4	CN012...GY6	CN012...GL6	CN012...GK6
16 A	CN016...GT4	CN016...GT6	CN016...GY4	CN016...GY6	CN016...GL6	CN016...GK6
20 A	CN020...GT4	CN020...GT6	CN020...GY4	CN020...GY6	CN020...GL6	CN020...GK6
25 A		CN025...GT6		CN025...GY6	CN025...GL6	CN025...GK6
32 A		CN032...GT6		CN032...GY6	CN032...GL6	CN032...GK6

Cam Switches



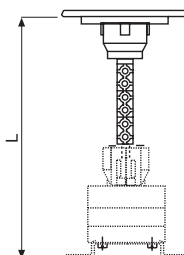
Accessories



Shaft extensions

- Allows adapting the switches with door interlocking device to the different mounting lengths

code	type	length
BR508300	B - GNAP0	100 mm
BR508600	B - GNAP1	150 mm
BR508900	B - GNAP2	200 mm



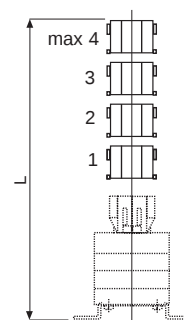
L=(mm)	CN012 - CN016 - CN020				CN025 - CN032			
	1	2	3	+□	1	2	3	+□
H=100mm	min 181	194	206	+ 12.2	min 216	232	248	+ 16.2
	max 191	203	215		max 225	242	258	
H=150mm	min 231	244	256	+ 12.2	min 266	282	298	+ 16.2
	max 241	253	265		max 275	292	308	
H=200mm	min 281	294	306	+ 12.2	min 316	332	348	+ 16.2
	max 291	303	315		max 325	342	358	



Modular extensions

- Allows adapting the switches with door interlocking device to the different mounting lengths
- Includes 4 forms that overlap

code	type	length
BR508000	B - GNAM0	-



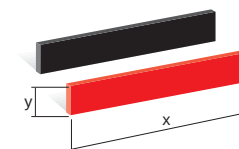
L=(mm)	CN012 - CN016 - CN020				CN025 - CN032			
	1	2	3	+□	1	2	3	+□
1 min	101	114	126	+ 12.2	min 111	127	143	+ 16.2
1 max	111	123	135		max 120	137	153	
2 min	126	139	151	+ 12.2	min 136	152	168	+ 16.2
2 max	136	148	160		max 145	162	178	
3 min	151	164	176	+ 12.2	min 161	177	193	+ 16.2
3 max	161	173	185		max 170	187	203	
3 min	176	189	201	+ 12.2	min 186	202	218	+ 16.2
3 max	186	198	210		max 195	212	228	



Reduction disk

- Allow the reduction of the fixing holes from 32 to 28 mm

code	type	length
BR507100	B - G1468	-



Black label - red label for engraving blank

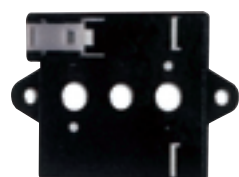
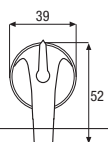
- For front trim plates with legend label carrier

code	type	length
BR506800	B - 6429	-



Single handle

code	type	length
BR507400	B - G1470N (black)	-
BR507700	B - G1470R (red)	-



DIN rail fixing-plate

- instead of metal fixing plate box version

code	type	
VB824200	B - G540	CN012...
		CN016...
		CN025...
		CN032...

Cam Switches



Circuit diagrams

Switches		
Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections
01		
02		
03		
04		
35		
G3		
G4		
05		
06		

Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections
07		
39		
D001		
D002		
D003		

Switches			L1 R L2 S L3 T
Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections	
08			
36			
09			

Cam Switches



Circuit diagrams

Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections	L1 R L2 S L3 T
10	<i>Star-delta starter</i> 	 CONT. 1 2 3 4 5 6 ELEM. 1 2 3 4 5 6	
11	<i>reversing pole changing switch</i> 	 CONT. 1 2 3 4 5 6 ELEM. 1 2 3 4 5 6	
12	<i>reversing star-delta starter switch</i> 	 CONT. 1 2 3 4 5 6 ELEM. 1 2 3 4 5 6	
13	<i>Pole changing switch with star-delta starting</i> 	 CONT. 1 2 3 4 5 6 ELEM. 1 2 3 4 5 6	
29	<i>Change-over switch for reversing with spring return to A - M</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
30	<i>Change-over switch for reversing starters with return to A - M</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
31	<i>Switch for single-phase motor with auxiliary phase</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
32	<i>Change-over switch for single-phase motor with auxiliary phase</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
33	<i>Pole changing switch for single-phase motors with auxiliary phase to start on the first speed</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	

Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections	L1 R L2 S L3 T
34	<i>Reversing starter for single-phase motors with centrifugal cut-out</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	

Voltmeter switches

15	<i>Voltmeter switch 3 for measurements between each phase and neutral</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
16	<i>Voltmeter switch for measurements between each phase and phase</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
17	<i>Voltmeter switch for measurements between each phase and phase + 1 phase and neutral</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
18	<i>Voltmeter switch for measurements between each phase and phase + 1 phase and neutral</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
19	<i>Voltmeter switch for measurements between each phase and phase + 1 phase and neutral</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	

Ammeter switches

14	<i>Ammeter switch for direct measurements</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	
20	<i>Ammeter switch for direct measurements between 1-pole 1 current transformer</i> 	 CONT. 1 2 3 4 ELEM. 1 2 3 4	

Cam Switches

Circuit diagrams



Text sheet Diagram no.	Circuit Diagrams	Description of contacts and sections	L1 R L2 S L3 T
21	Ammeter switch for direct measurements between 1-pole 2 current transformer		

Ammeter switches			
22	Ammeter switch for measurements 1-pole 3 current transformers		
23	Ammeter switch for measurements between 1-pole 4 current transformers		

Text sheet Diagram no.	Circuit diagrams	Description of contacts and sections
MZ24	2 pole - 4 ways	
MZ33	3 pole - 3 ways	
MZ43	4 pole - 3 ways	

Multi-step change-over with 0 position			
MZ12	1 pole - 2 ways		
MZ13	1 pole - 3 ways		
MZ14	1 pole - 4 ways		
MZ22	2 pole - 2 ways		
MZ23	2 pole - 3 ways		

Multi-step change-over switches without 0 position			
M013	1 pole - 4 ways		
M014	1 pole - 5 ways		
M015	2 pole - 4 ways		
M024	2 pole - 5 ways		
M025	2 pole - 3 ways		

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	2 way	3 way	4 way	5 way	6 vie-6 ways
1-pole	GZ12	GZ13	GZ14	GZ1 5	GZ16
2-pole	GZ22	GZ23	GZ24	GZ25	GZ26
3-pole	GZ32	GZ33	GZ34	GZ35	GZ36
4-pole	GZ42	GZ43	GZ44	GZ45	GZ46

					
	<i>7 way</i>	<i>8 way</i>	<i>9 way</i>	<i>10 way</i>	<i>11 way</i>
1-pole	GZ17	GZ18	GZ19	GZ00	GZ01
2-pole	GZ27	GZ28	GZ29	GZ02	GZ03
3-pole	GZ37	GZ38	GZ39	GZ04	GZ05
4-pole	GZ47	GZ48	GZ49	GZ06	GZ07

The circuit diagrams you use probably already exist among the more than 9000 special diagrams memorized in our CAD system

The special versions have to be definite after having contacted our Technical Service directly or sent the special order form shown sideways.

Cam Switches



Overall dimensions (mm)

Version	Front view	Side view	Hole layout	Dimensions (mm)																																																																		
RRO				"L" RELATED NUMBER OF SECTIONS, SEE CIRCUIT DIAGRAMS <table><tr><th></th><th>C</th><th>D</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>..</th></tr><tr><td>CN012</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN016</td><td>53x43</td><td>12.2</td><td>38</td><td>50</td><td>62</td><td>74</td><td>86</td><td></td></tr><tr><td>CN020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN025</td><td>64x54</td><td>16.2</td><td>44</td><td>60</td><td>76</td><td>93</td><td>109</td><td></td></tr><tr><td>CN032</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> ...For additional sections add D value		C	D	1	2	3	4	5	..	CN012									CN016	53x43	12.2	38	50	62	74	86		CN020									CN025	64x54	16.2	44	60	76	93	109		CN032																				
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CN032																																																																						
RT4-RY4 RT6-RY6 RT7-RY7				"L" RELATED NUMBER OF SECTIONS, SEE CIRCUIT DIAGRAMS <table><tr><th></th><th>C</th><th>D</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>..</th></tr><tr><td>CN012</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN016</td><td>53x43</td><td>12.2</td><td>38</td><td>50</td><td>62</td><td>74</td><td>86</td><td></td></tr><tr><td>CN020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN025</td><td>64x54</td><td>16.2</td><td>44</td><td>60</td><td>76</td><td>93</td><td>109</td><td></td></tr><tr><td>CN032</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> ...For additional sections add D value		C	D	1	2	3	4	5	..	CN012									CN016	53x43	12.2	38	50	62	74	86		CN020									CN025	64x54	16.2	44	60	76	93	109		CN032																				
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RK6-RL6 RK7-RL7				<table><tr><th></th><th>A</th><th>A1</th><th>B</th></tr><tr><td>RT4-RY4</td><td>48</td><td>48</td><td>37</td></tr><tr><td>RT6-RY6</td><td>67</td><td>67</td><td>39</td></tr><tr><td>RK6-RL6</td><td></td><td></td><td></td></tr><tr><td>RT7-RY7</td><td>67</td><td>82</td><td>39</td></tr><tr><td>RK7-RL7</td><td></td><td></td><td></td></tr></table>		A	A1	B	RT4-RY4	48	48	37	RT6-RY6	67	67	39	RK6-RL6				RT7-RY7	67	82	39	RK7-RL7																																													
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Cam Switches



Overall dimensions (mm)

Version	Front view	Side view	Hole layout	Dimensions (mm)																																																						
GT4-GY4 GT6-GY6				"L" RELATED NUMBER OF SECTIONS, SEE CIRCUIT DIAGRAMS <table><tr><th></th><th>C</th><th>D</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th></tr><tr><td>CN012</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN016</td><td>53x43</td><td>12.2</td><td>65</td><td>77</td><td>89</td><td>102</td><td>...</td><td>MAX 6</td></tr><tr><td>CN020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CN025</td><td>64x54</td><td>16.2</td><td>71</td><td>87</td><td>103</td><td></td><td></td><td>MAX 3</td></tr><tr><td>CN032</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> ...For additional sections add D value		C	D	1	2	3	4	5	6	CN012									CN016	53x43	12.2	65	77	89	102	...	MAX 6	CN020									CN025	64x54	16.2	71	87	103			MAX 3	CN032								
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Version	Accessories		Hole layout	Dimensions (mm)																																								
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Technical data

General specifications					CN012	CN016	CN020	CN025	CN032		
Rated insulation voltage		Ui	IEC947	V	500	500	690	690	690		
		UL		V	690	600/300/690	690	690	690		
Rated impulse withstand voltage		Uimp	IEC947	kV	4	4	6	6	6		
Rated thermal current		free air	lth	IEC947	A	16	20	20	40		
			UL	A	12	16	20	32	40		
		enclosed	lthe	IEC/VDE/BS	A	16	20	20	32	40	
Rated operational current		Category AC21A	le	IEC947	690 V	A	12 ●	16 ●	20	32	40
		Category AC22A	le	IEC947	690 V	A	12 ●	16 ●	16	25	32
		Category AC20	le		A						
Max ratings for application on motors											
Category AC3	3-phase / 3-pole	IEC947	230 V	kW (A)	2.2 (7)	3.7 (12)	4 (14)	5.5 (18)	7.5 (23)		
				400 V	kW (A)	3.5 (7)	5.5 (10)	7.5 (14)	10 (18)	15 (27)	
				500 V	kW (A)	-	-	7.5 (11)	10 (14)	15 (22)	
				690 V	kW (A)	-	-	7.5 (8)	15 (19)	18.5 (19)	
Category AC23A	1-phase / 2-pole	IEC947	110 V	kW (A)	0.37 (4)	0.75 (9)	1.1 (13)	1.5 (17)	2.2 (25)		
				230 V	kW (A)	1.1 (6)	1.5 (8)	2.2 (12)	3.7	5.5 (30)	
	3-phase / 3-pole	IEC947	230 V	kW (A)	3 (9)	4 (14)	5.5 (17)	8.5 (27)	10 (32)		
				400 V	kW (A)	4 (9)	7.5 (14)	9 (16)	15 (27)	18.5 (30)	
				500 V	kW (A)	-	-	9 (13)	15 (22)	18.5 (27)	
				690 V	kW (A)	-	-	9 (9)	15 (16)	18.5 (19)	
1-phase / 2-pole	IEC947	110 V	kW (A)	0.75 (8.5)	1.1 (12)	1.1(8.5)	2.2 (25)	3 (34)			
			230 V	kW (A)	1.5 (8.5)	1.5 (8)	3 (17)	4 (22)	5.5 (30)		
Category AC4	3-phase / 3-pole	IEC947	230 V	kW (A)	-	-	1.5	2.2 (7)	3 (10)		
				400 V	kW (A)	-	-	2.2	3 (5.5)	5.5 (10)	
Standard motor load	3-phase / 3-pole	UL/CSA	200 V	HP	1.5	-2	5-	7.5	10		
				240 V	HP	2	3	7.5	10	15	
				480 V	HP	3	7.5	10	15	20	
				600 V	HP	5	7.5	10	15	20	
	1-phase / 2-pole	UL/CSA	120 V	HP	0.5	1	1.5	2	3		
				240 V	HP	1.5	2	3	5	7.5	
Category AC15			IEC947	230 V	A	4	6	7	8	10	
				400 V	A	3	4	5	6	8	
Rated short-time withstand current (1s)		lcw		A	150	240	240	400	500		
Rated short-circuit making capacity		lcm		A	-	-	1500	2000	2000		
Rated conditional short-circuit current			IEC947-3	500 V	kA eff.	4	4	5	10	10	
With fuses class gG				500 V	A	16	20	20	35	-	
Connecting capacity	Rigid cables	min-max		mm²	2x1.5-4	2x1.5-4	2x1.5-4	2x2.5-10	2x2.5-10		
	Flexible cables	min-max		mm²2x1.5-2.5	2x1.5-2.5	2x1.5-2.5	2x2.5-6	2x2.5-6			
					AWG	16-12	16-12	16-12	14-10	14-10	
Rated breaking capacity in category AC23 (cosφ 0.45)			IEC947	230 V	A	72	112	136	216	256	
				400 V	A	72	112	128	216	240	
Average power dissipation for each pole				W	0.27	0.5	0.4	1	1.3		
Mechanical life			cycles 10 ⁶			2	2	2	1.5	1.5	
			cycles per hour		120	120	120	120			
Normal service conditions											
Temperatura ambiente/Air ambient temperature			Storage		°C	-30 to 70					
			Operational		°C	-25 to 55					
Resistance to climate	constant hot-damp climate, according to IEC 68 Part:					2-8					
	cyclic hot-damp climate, according to IEC 68 Part:					2-30					

● - a 400 V