

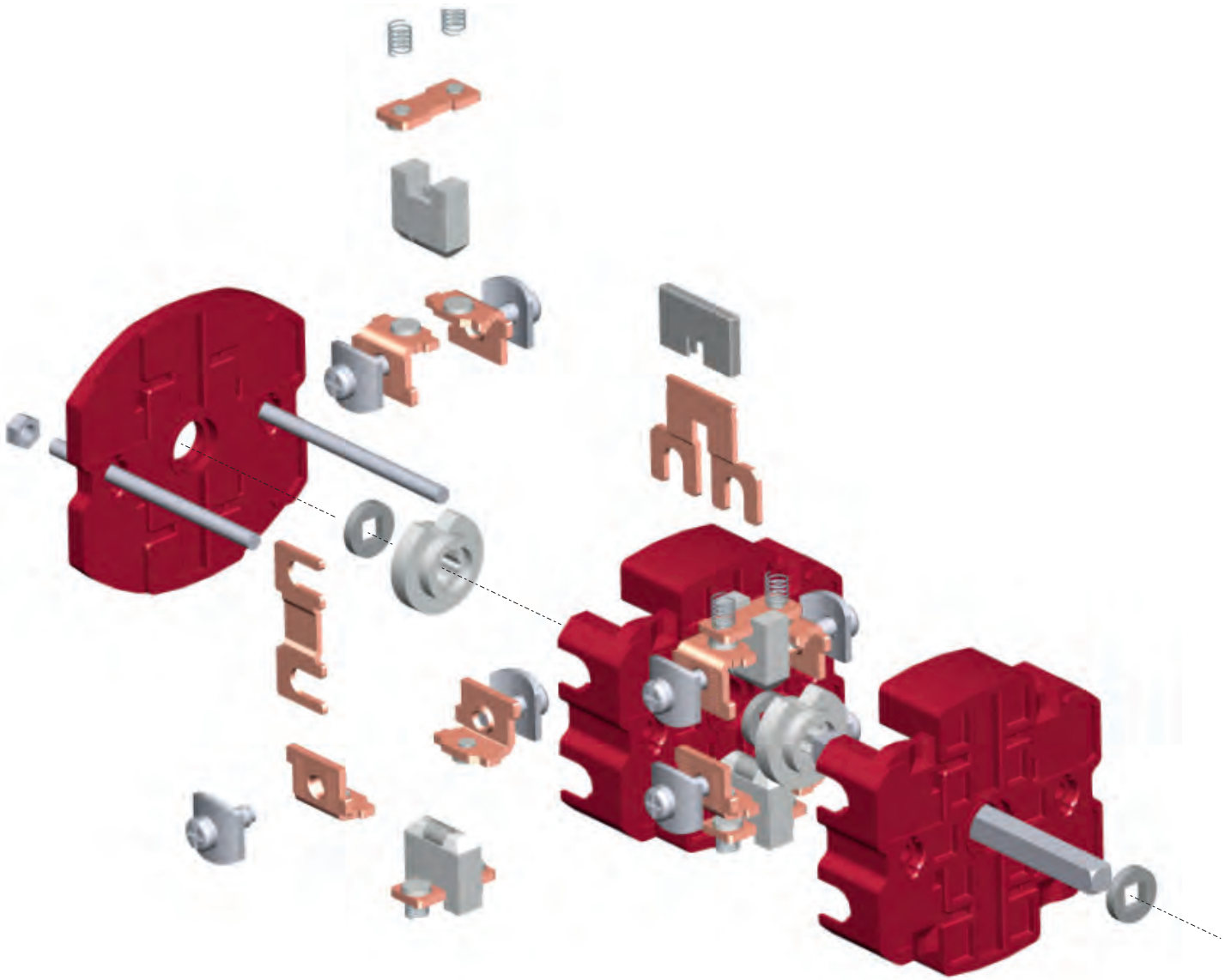


# ROTARY CAM SWITCHES GREBENASTE SKLOPKE

Type / Tip BS



**RADE KONČAR**  
KONTAKTORI I RELEI D.O.O.



## QUALITY SYSTEM / SISTEM KVALETETA

### ISO 9001 "Quality system.

**Models for quality assurance in design / development, production and distribution of low - voltage switching devices".**

The **RADE KONČAR - KONTAKTORI I RELEI D.O.O.** Quality Managements System has been certified by TÜV CERT- Certification Body of TÜV Rheinland Euroqua Kft.

The Certificate No. 75 100 40035 issued until January 2016 confirms that the quality system is in conformance with requirements of the standard ISO 9001: 2008 and refers to following product categories: Contactors, Thermal overload relays, Rotary cam switches, Pilot devices, Moulded case circuit breakers  
Electronic time relays.

### *ISO 9001 "Sistem kvaliteta.*

***Model za garanciju kvaliteta u razvoju, proizvodnji i distribuciju niskonaponskih sklopnih aparata".***

***Sistem kvaliteta u RADE KONČAR - KONTAKTORI I RELEI D.O.O.***

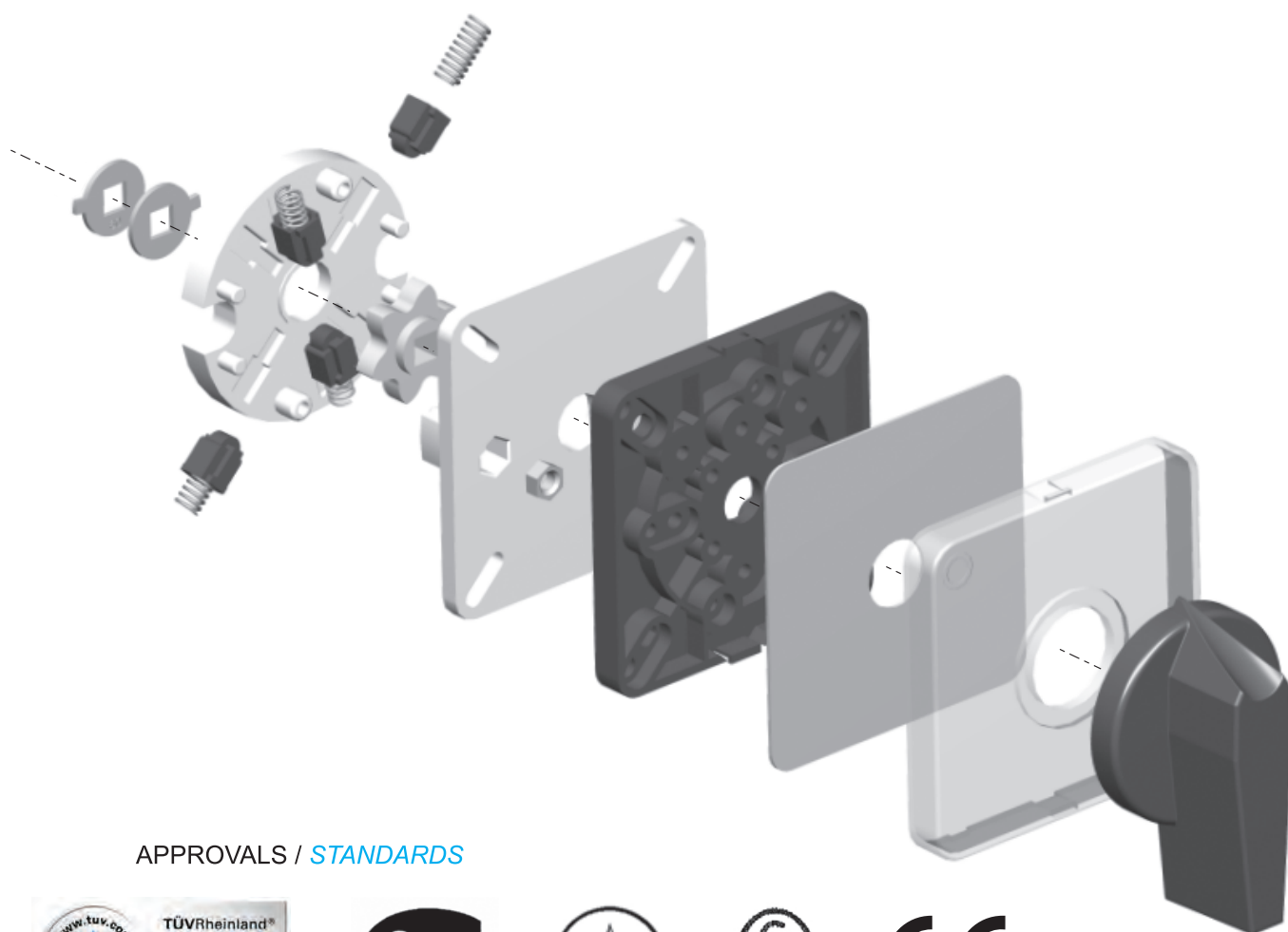
***sertificiran je od TÜV CERT- Sertifikaciono tjelo na TÜV Rheinland Euroqua Kft.***

***Sertifikat Br. 75 100 40035 koji ima validitet do Januari 2016 potvrđuje da sistem kvaliteta je u suglasnosti sa zahtjevima norme SO 9001: 2008, a odnosi se na slijedeće proizvodne kategorije: kontaktore, bimetale, grebenaste sklopke, upravljačke sklopke, niskonaponske prekidače, vrtljive sklopke, elektronske vremenske releje.***



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APPROVALS / *STANDARDS*



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01	22	1 pole with self return <i>1 polna sa povratom</i>	24	43	2 pole reversing switch <i>2 polna reverzibilna</i>	53	23/51	3 pole Changeover switch 1-0-2, Motor sw. <i>3 polna preklopka 1-0-2</i>
02	22	2 pole with self return <i>2 polna sa povratom</i>	25	44	2 pole reversing switch return tu "0" <i>2 polna rever. povrat u "0"</i>	54	23	1 pole Changeover switch 1-2 <i>1 polna preklopka 1-2</i>
03	22	3 pole with self return <i>3 polna sa povratom</i>	26	44	3 pole reversing switch return tu "0" <i>3 polna rever. povrat u "0"</i>	55	23	2 pole Changeover switch 1-2 <i>2 polna preklopka 1-2</i>
04	22	4 pole with self return <i>4 polna sa povratom</i>	27	44	3 pole reversing switch with contactor <i>3 polna rever. sa sklop.</i>	56	23	3 pole Changeover switch 1-2 <i>3 polna preklopka 1-2</i>
05	21	1 pole with 90° switching <i>1 polna s kutom zakreta 90°</i>	28	46	Star-Delta 0→Y-Δ <i>Zvezda-Trokut 0→Y-Δ</i>	57	22	3 pole current changeover switch 1-2 <i>3 polna strujna preklopka</i>
06	21	2 pole with 90° switching <i>2 polna s kutom zakreta 90°</i>	29	46	Star-Delta Y→0→Y-Δ <i>Zvezda-Trokut Y→0→Y-Δ</i>	58	40	Ammeter switch 2 p/L1-L2-L3 <i>Amper. sklop. 2p/L1-L2-L3</i>
07	21	3 pole with 90° switching <i>3 polna s kutom zakreta 90°</i>	31	47	Star-Delta with contactor <i>Zvezda-Trokut sa sklop.</i>	60	39	Voltmeter switch without "0" 3 line voltage, 1 phase <i>Voltmetarska sklopka 3 linijska nap. 1 fazni</i>
08	21	4 pole with 90° switching <i>4 polna s kutom zakreta 90°</i>	32	49	Δ-YY - with contactor <i>Zvezda-Trokut sa sklop.</i>	62	23	10 pole Changeover switch 1-2 <i>10 polna preklopka 1-2</i>
09	21	3 pole with 360° rotation <i>3 polna-rotacija 360°</i>	33	51	Δ-YY - with contactor <i>Zvezda-Trokut sa sklop.</i>	66	38	Voltmeter switch with "0" 3 line voltage, 3 phase <i>Voltmetarska sklopka 3 linijska nap. 3 fazni</i>
10	21	3 pole switch <i>3 polna sklopka</i>	34	52	3 speed 0-Δ-Y-YY <i>3 brzine 0-Δ-Y-YY</i>	67	39	Voltmeter switch with "0" 3 line voltage <i>Voltmetarska sklopka 3 linijska napona</i>
11	43	3 pole reversing switch <i>3 polna reverzibilna sklopka</i>	35	53	3 speed 0-Δ-YY-Y <i>3 brzine 0-Δ-YY-Y</i>	68	39	Voltmeter switch with "0" 3 phase voltage <i>Voltmetarska sklopka 3 fazna napona</i>
12	45	Star-Delta switch 0-Y-Δ <i>Zvezda-Trokut sklopka</i>	36	53	3 speed 0-Y-Δ-YY <i>3 brzine 0-Y-Δ-YY</i>	69	23	4 pole Changeover switch 1-2 <i>4 polna preklopka 1-2</i>
13	48	Dahlander Δ-0-YY <i>Dahlander Δ-0-YY</i>	37	21	7 pole switch <i>7 polna sklopka</i>	70	23	5 pole Changeover switch 1-2 <i>5 polna preklopka 1-2</i>
14	43	Motor reversing 1-0→ 2 <i>Motorska reverzibilna sklopka 1-0→2</i>	38	21	8 pole switch <i>8 polna sklopka</i>	71	23	6 pole Changeover switch 1-2 <i>6 polna preklopka 1-2</i>
15	54	Switch for starting 1 f.M <i>Sklopka za pokretanje 1 f. motora</i>	39	21	9 pole switch <i>9 polna sklopka</i>	72	23	7 pole Changeover switch 1-2 <i>7 polna preklopka 1-2</i>
16	54	Switch for starting 1 f.M reversing <i>Sk. za pokret. 1 f. M-rev.</i>	40	21	10 pole switch <i>10 polna sklopka</i>	73	23	8 pole Changeover switch 1-2 <i>8 polna preklopka 1-2</i>
17	54	Switch for starting 1 f.M permanent start <i>Pokret. 1 f.M-trajno uključ.</i>	41	21	11 pole switch <i>11 polna sklopka</i>	74	23	9 pole Changeover switch 1-2 <i>9 polna preklopka 1-2</i>
18	52	3 speed, with contactor <i>3 brzine sa sklopnikom</i>	42	21	12 pole switch <i>12 polna sklopka</i>	75	23	4 pole Changeover switch 1-0-2 <i>4 polna preklopka 1-0-2</i>
19	48	Dahlander 0 - Δ - YY <i>Dahlander 0 - Δ - YY</i>	43	23	11 pole Changeover switch 1-2 <i>11 polna preklopka 1-2</i>	76	23	5 pole Changeover switch 1-0-2 <i>5 polna preklopka 1-0-2</i>
20	49	Dahlander YY-Δ-0-Δ-YY <i>Dahlander YY-Δ-0-Δ-YY</i>	44	23	12 pole Changeover switch 1-2 <i>12 polna preklopka 1-2</i>	77	23	6 pole Changeover switch 1-0-2 <i>6 polna preklopka 1-0-2</i>
21	45	Star-Delta switch Δ-Y-0-Y-Δ <i>Zvezd.-Trokut sklopka Δ-Y-0-Y-Δ</i>	49	47	Star-Delta with contact in "0" <i>Y-Δ s kontaktom u "0"</i>	78	23	7 pole Changeover switch 1-0-2 <i>7 polna preklopka 1-0-2</i>
22	50	Motor control switch 0-1-2 <i>Sklopke za uprav. motorima 0-1-2</i>	51	23	1 pole Changeover switch 1-0-2 <i>1 polna preklopka 1-0-2</i>	79	23	8 pole Changeover switch 1-0-2 <i>8 polna preklopka 1-0-2</i>
23	50	M. control switch 2-1-0-1-2 <i>Sklopke za uprav. motorima 2-1-0-1-2</i>	52	23	2 pole Changeover switch 1-0-2 <i>2 polna preklopka 1-0-2</i>	80	23	9 pole Changeover switch 1-0-2 <i>9 polna preklopka 1-0-2</i>

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82	24	Multi-step switch without "0" 1 pole, 3 position <i>Stepenasta sklopka bez "0" 1 polna, 3 položaja</i>	105	28	Multi-step switch without "0" 1 pole, 11 position <i>Stepenasta sklopka bez "0" 1 polna, 11 položaja</i>	128	32	Multi-step switch with "0" 2 pole, 7 position <i>Stepenasta sklopka s "0" 2 polna, 7 položaja</i>
83	25	Multi-step switch without "0" 1 pole, 4 position <i>Stepenasta sklopka bez "0" 1 polna, 4 položaja</i>	106	29	Multi-step switch without "0" 1 pole, 12 position <i>Stepenasta sklopka bez "0" 1 polna, 12 položaja</i>	129	33	Multi-step switch with "0" 2 pole, 8 position <i>Stepenasta sklopka s "0" 2 polna, 8 položaja</i>
84	25	Multi-step switch without "0" 1 pole, 5 position <i>Stepenasta sklopka bez "0" 1 polna, 5 položaja</i>	107	29	Multi-step switch with "0" 1 pole, 2 position <i>Stepenasta sklopka s "0" 1 polna, 2 položaja</i>	130	33	Multi-step switch with "0" 2 pole, 9 position <i>Stepenasta sklopka s "0" 2 polna, 9 položaja</i>
85	26	Multi-step switch without "0" 1 pole, 6 position <i>Stepenasta sklopka bez "0" 1 polna, 6 položaja</i>	108	30	Multi-step switch with "0" 1 pole, 3 position <i>Stepenasta sklopka s "0" 1 polna, 3 položaja</i>	131	34	Multi-step switch with "0" 2 pole, 10 position <i>Stepenasta sklopka s "0" 2 polna, 10 položaja</i>
86	24	Multi-step switch without "0" 2 pole, 3 position <i>Stepenasta sklopka bez "0" 2 polna, 3 položaja</i>	109	31	Multi-step switch with "0" 1 pole, 4 position <i>Stepenasta sklopka s "0" 1 polna, 4 položaja</i>	132	34	Multi-step switch with "0" 2 pole, 11 position <i>Stepenasta sklopka s "0" 2 polna, 11 položaja</i>
87	25	Multi-step switch without "0" 2 pole, 4 position <i>Stepenasta sklopka bez "0" 2 polna, 4 položaja</i>	110	31	Multi-step switch with "0" 1 pole, 5 position <i>Stepenasta sklopka s "0" 1 polna, 5 položaja</i>	133	26	Multi-step switch without "0" 3 pole, 7 position <i>Stepenasta sklopka bez "0" 3 polna, 7 položaja</i>
88	25	Multi-step switch without "0" 2 pole, 5 position <i>Stepenasta sklopka bez "0" 2 polna, 5 položaja</i>	111	32	Multi-step switch with "0" 1 pole, 6 position <i>Stepenasta sklopka s "0" 1 polna, 6 položaja</i>	134	27	Multi-step switch without "0" 3 pole, 8 position <i>Stepenasta sklopka bez "0" 3 polna, 8 položaja</i>
89	26	Multi-step switch without "0" 2 pole, 6 position <i>Stepenasta sklopka bez "0" 2 polna, 6 položaja</i>	112	32	Multi-step switch with "0" 1 pole, 7 position <i>Stepenasta sklopka s "0" 1 polna, 7 položaja</i>	135	29	Multi-step switch with "0" 3 pole, 2 position <i>Stepenasta sklopka s "0" 3 polna, 2 položaja</i>
90	21	1 pole switch <i>1 polna sklopka</i>	113	33	Multi-step switch with "0" 1 pole, 8 position <i>Stepenasta sklopka s "0" 1 polna, 8 položaja</i>	136	30	Multi-step switch with "0" 3 pole, 3 position <i>Stepenasta sklopka s "0" 3 polna, 3 položaja</i>
91	21	2 pole switch <i>2 polna sklopka</i>	114	33	Multi-step switch with "0" 1 pole, 9 position <i>Stepenasta sklopka s "0" 1 polna, 9 položaja</i>	137	31	Multi-step switch with "0" 3 pole, 4 position <i>Stepenasta sklopka s "0" 3 polna, 4 položaja</i>
92	21	4 pole switch <i>4 polna sklopka</i>	115	34	Multi-step switch with "0" 1 pole, 10 position <i>Stepenasta sklopka s "0" 1 polna, 10 položaja</i>	138	31	Multi-step switch with "0" 3 pole, 5 position <i>Stepenasta sklopka s "0" 3 polna, 5 položaja</i>
93	24	Multi-step switch without "0" 3 pole, 3 position <i>Stepenasta sklopka bez "0" 3 polna, 3 položaja</i>	116	34	Multi-step switch with "0" 1 pole, 11 position <i>Stepenasta sklopka s "0" 1 polna, 11 položaja</i>	139	32	Multi-step switch with "0" 3 pole, 6 position <i>Stepenasta sklopka s "0" 3 polna, 6 položaja</i>
94	25	Multi-step switch without "0" 3 pole, 4 position <i>Stepenasta sklopka bez "0" 3 polna, 4 položaja</i>	117	26	Multi-step switch without "0" 2 pole, 7 position <i>Stepenasta sklopka bez "0" 2 polna, 7 položaja</i>	140	32	Multi-step switch with "0" 3 pole, 7 position <i>Stepenasta sklopka s "0" 3 polna, 7 položaja</i>
95	25	Multi-step switch without "0" 3 pole, 5 position <i>Stepenasta sklopka bez "0" 3 polna, 5 položaja</i>	118	27	Multi-step switch without "0" 2 pole, 8 position <i>Stepenasta sklopka bez "0" 2 polna, 8 položaja</i>	141	24	Multi-step switch without "0" 4 pole, 3 position <i>Stepenasta sklopka bez "0" 4 polna, 3 položaja</i>
96	26	Multi-step switch without "0" 3 pole, 6 position <i>Stepenasta sklopka bez "0" 3 polna, 6 položaja</i>	119	27	Multi-step switch without "0" 2 pole, 9 position <i>Stepenasta sklopka bez "0" 2 polna, 9 položaja</i>	142	25	Multi-step switch without "0" 4 pole, 4 position <i>Stepenasta sklopka bez "0" 4 polna, 4 položaja</i>
97	41	Ammeter switch 2 p/0-1-2-3 <i>Amper. sklop. 2p/0-1-2-3</i>	120	28	Multi-step switch without "0" 2 pole, 10 position <i>Stepenasta sklopka bez "0" 2 polna, 10 položaja</i>	143	25	Multi-step switch without "0" 4 pole, 5 position <i>Stepenasta sklopka bez "0" 4 polna, 5 položaja</i>
98	40	Ammeter switch 1 p/0-1-2-3 <i>Amper. sklop. 1p/0-1-2-3</i>	121	28	Multi-step switch without "0" 2 pole, 11 position <i>Stepenasta sklopka bez "0" 2 polna, 11 položaja</i>	144	26	Multi-step switch without "0" 4 pole, 6 position <i>Stepenasta sklopka bez "0" 4 polna, 6 položaja</i>
99	21	5 pole switch <i>5 polna sklopka</i>	122	29	Multi-step switch without "0" 2 pole, 12 position <i>Stepenasta sklopka bez "0" 2 polna, 12 položaja</i>	145	29	Multi-step switch with "0" 4 pole, 2 position <i>Stepenasta sklopka s "0" 4 polna, 2 položaja</i>
100	21	6 pole switch <i>6 polna sklopka</i>	123	29	Multi-step switch with "0" 2 pole, 2 position <i>Stepenasta sklopka s "0" 2 polna, 2 položaja</i>	146	30	Multi-step switch with "0" 4 pole, 3 position <i>Stepenasta sklopka s "0" 4 polna, 3 položaja</i>
101	26	Multi-step switch without "0" 1 pole, 7 position <i>Stepenasta sklopka bez "0" 1 polna, 7 položaja</i>	124	30	Multi-step switch with "0" 2 pole, 3 position <i>Stepenasta sklopka s "0" 2 polna, 3 položaja</i>	147	31	Multi-step switch with "0" 4 pole, 4 position <i>Stepenasta sklopka s "0" 4 polna, 4 položaja</i>
102	27	Multi-step switch without "0" 1 pole, 8 position <i>Stepenasta sklopka bez "0" 1 polna, 8 položaja</i>	125	31	Multi-step switch with "0" 2 pole, 4 position <i>Stepenasta sklopka s "0" 2 polna, 4 položaja</i>	148	31	Multi-step switch with "0" 4 pole, 5 position <i>Stepenasta sklopka s "0" 4 polna, 5 položaja</i>
103	27	Multi-step switch without "0" 1 pole, 9 position <i>Stepenasta sklopka bez "0" 1 polna, 9 položaja</i>	126	31	Multi-step switch with "0" 2 pole, 5 position <i>Stepenasta sklopka s "0" 2 polna, 5 položaja</i>	149	24	Multi-step switch without "0" 5 pole, 3 position <i>Stepenasta sklopka bez "0" 5 polna, 3 položaja</i>

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151	29	Multi-step switch with "0" 5 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>5 polna, 2 položaja</i>	204	41	Spring return switch 1→2 1 make and 1 break <i>S povratom 1 uklop i 1 isklup</i>
152	30	Multi-step switch with "0" 5 pole, 3 position <i>Stepenasta sklopka s "0"</i> <i>5 polna, 3 položaja</i>	205	41	Spring return switch 1→2 2 make and 2 break <i>S povratom 2 uklop i 2 isklup</i>
153	31	Multi-step switch with "0" 5 pole, 4 position <i>Stepenasta sklopka s "0"</i> <i>5 polna, 4 položaja</i>	206	41	Spring return switch 1→2 3 make and 3 break <i>S povratom 3 uklop i 3 isklup</i>
154	24	Multi-step switch without "0" 6 pole, 3 position <i>Stepenasta sklopka bez "0"</i> <i>6 polna, 3 položaja</i>	207	42	Spring return switch 1→2 1 make right and 1 break left <i>S povratom 1 uklop desno</i> <i>i 1 isklup lijevo</i>
155	25	Multi-step switch without "0" 6 pole, 4 position <i>Stepenasta sklopka bez "0"</i> <i>6 polna, 4 položaja</i>	208	42	Control switch 1→→→2 <i>Upravljačk sklopka 1→→→2</i>
156	29	Multi-step switch with "0" 6 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>6 polna, 2 položaja</i>	209	42	Control switch 1→→→2 <i>Upravljačka sklopka 1→→→2</i>
157	30	Multi-step switch with "0" 6 pole, 3 position <i>Stepenasta sklopka s "0"</i> <i>6 polna, 3 položaja</i>	210	42	Switch with spring return left and right <i>Sklopka sa zakretnim</i> <i>tipkaom lijevo i desno</i>
158	31	Multi-step switch with "0" 6 pole, 4 position <i>Stepenasta sklopka s "0"</i> <i>6 polna, 4 položaja</i>	251	35	Gang switch with "0" 1 pole 2 gang <i>Grupna sklopka s "0"</i> <i>1 polna 2 grupe</i>
159	24	Multi-step switch without "0" 7 pole, 3 position <i>Stepenasta sklopka bez "0"</i> <i>7 polna, 3 položaja</i>	252	35	Gang switch with "0" 2 pole 2 gang <i>Grupna sklopka s "0"</i> <i>2 polna 2 grupe</i>
160	29	Multi-step switch with "0" 7 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>7 polna, 2 položaja</i>	253	36	Gang switch with "0" 3 pole 2 gang <i>Grupna sklopka s "0"</i> <i>3 polna 2 grupe</i>
161	30	Multi-step switch with "0" 7 pole, 3 position <i>Stepenasta sklopka s "0"</i> <i>7 polna, 3 položaja</i>	254	35	Gang switch with "0" 1 pole 3 gang <i>Grupna sklopka s "0"</i> <i>1 polna 3 grupe</i>
162	25	Multi-step switch without "0" 8 pole, 3 position <i>Stepenasta sklopka bez "0"</i> <i>8 polna, 3 položaja</i>	255	36	Gang switch with "0" 2 pole 3 gang <i>Grupna sklopka s "0"</i> <i>2 polna 3 grupe</i>
163	29	Multi-step switch with "0" 8 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>8 polna, 2 položaja</i>	256	36	Gang switch with "0" 3 pole 3 gang <i>Grupna sklopka s "0"</i> <i>3 polna 3 grupe</i>
164	31	Multi-step switch with "0" 8 pole, 3 position <i>Stepenasta sklopka s "0"</i> <i>8 polna, 3 položaja</i>	257	37	Gang switch 1 pole 2 gang <i>Grupna sklopka</i> <i>1 polna 2 grupe</i>
175	29	Multi-step switch with "0" 9 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>9 polna, 2 položaja</i>	258	37	Gang switch 2 pole 2 gang <i>Grupna sklopka</i> <i>2 polna 2 grupe</i>
176	29	Multi-step switch with "0" 10 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>10 polna, 2 položaja</i>	259	37	Gang switch 3 pole 2 gang <i>Grupna sklopka</i> <i>3 polna 2 grupe</i>
177	29	Multi-step switch with "0" 11 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>11 polna, 2 položaja</i>	260	38	Gang switch 2 pole 2 gang <i>Grupna sklopka</i> <i>2 polna 2 grupe</i>
178	29	Multi-step switch with "0" 12 pole, 2 position <i>Stepenasta sklopka s "0"</i> <i>12 polna, 2 položaja</i>	275	22	Switch with 90° switching 4 pole 1 pole preclose <i>Sklopka s kutom zakreta 90°</i> <i>4 polna 1 pol predhodi</i>
182	23	11 pole Changeover switch 1-0-2 <i>11 polna preklopka 1-0-2</i>	276	22	Switch with 90° switching 4 pole 3 pole preclose <i>Sklopka s kutom zakreta 90°</i> <i>4 polna 3 pola predhode</i>
183	23	12 pole Changeover switch 1-0-2 <i>12 polna preklopka 1-0-2</i>	277	22	Switch with 90° switching 5 pole 2 pole preclose <i>Sklopka s kutom zakreta 90°</i> <i>5 polna 2 pola predhode</i>
201	22	Spring return switch 1 pole 1→0→2 <i>S povratom u "0" 1 polna</i>	278	22	Switch with 90° switching 5 pole 3 pole preclose <i>Sklopka s kutom zakreta 90°</i> <i>5 polna 3 pola predhode</i>
202	22	Spring return switch 2 pole 1→0→2 <i>S povratom u "0" 2 polna</i>			

## ROTARY CAM SWITCHES “BS”

Rotary cam switches series “BS” are intended for multiple switching operations in main as well as in auxiliary circuits: As motor switches they are designed for direkt-online starting and stopping of single- phase and three-phase motors. They also come out as star-delta switches, reversing switches, pole-change over motor switches.

In auxiliary circuits they are assembled in compliance with the switching programme according to preference: switches for control, signalling and measuring circuits.

Switches, selector switches and step switches e.g. for transformers and welding apparatuses.

Group switches e.g. for switching operations of resistors and heaters.

Control switch with automatic return

The advantages of rotary cam switches are: high making and breaking capacities, electrical and mechanical endurance and small dimensions.

Rotary cam switches comply with international and national standards such as: IEC/EN 60947-3, VDE 0660, TS EN 60947-3, BS 5419 etc.

The rotary cam switches “BS 10 to BS 63” can have 24 contacts (12 switching elements) maximum and can be made with turning angle of 30, 45, 60 and 90 degrees.

The rotary cam switches “BS 80 and BS 100K” can have 24 contacts (12 switching elements) maximum and can be made with turning angle of 45, 60 and 90 degrees.

The rotary cam switches “BS 125 to BS 630” can have 18 contacts (9 switching elements) maximum and can be made with turning angle of 60 and 90 degrees.

## GREBENASTE SKLOPKE “BS”

*Grebenaste sklopke služe za uklapanje i isklapanje motora i drugih potrošača.*

*Sklopke “BS” imaju višestruku primjenu za sklapanje u glavnim i pomoćnim strujnim krugovima:*

*Kao motorske sklopke mogu pogonski sigurno sklapati, upravljati i pokretati trofazne i jednofazne motore, a mogu se izvesti kao: preklopka zvijezda - trokut, preklopka za reverziranje, preklopka za motore sa više brzina itd.*

*U pomoćnim strujnim krugovima sastavljaju se prema željenom programu sklapanja: sklopke za komandne, signalizacijske i mjerne krugove*

*Sklopke, preklopke i stepenaste sklopke npr. za transformatore i aparate za zavarivanje*

*Grupne sklopke npr. za sklapanje otpornika i grijača  
Zakretna tipkala s automatskim povratom.*

*Glavne odlike “BS” sklopke su: velika uklopna moć, velika električna trajnost, sigurnost od napona dodira.*

*Njihove karakteristike u potpunosti odgovaraju međunarodnom standardu IEC/EN 60947-3, kao i nacionalnim standardima VDE 0660, BS 5419, TS EN 60947-3 i drugi.*

*Sklopke “BS 10 do BS 63” mogu imati najviše 24 kontakta (12 sklopnih elemenata) i mogu se izvesti s ugaom zakreta: 30, 45, 60 i 90 stepena.*

*Sklopke “BS 80 i BS 100K” mogu imati najviše 24 kontakta (12 sklopnih elemenata) i mogu se izvesti s ugaom zakreta: 45, 60 i 90 stepena.*

*Sklopke “BS 125 do BS 630” mogu imati najviše 18 kontakta (9 sklopnih elemenata) i mogu se izvesti s ugaom zakreta: 60 i 90 stepena.*

<b>UTILIZATION CATEGORY</b>		<b>KATEGORIJA PRIMENE</b>
<i>Category</i> <i>Kategorije</i>	<i>Utilization</i> <i>Primena</i>	
<b>AC-20</b>	<i>Connecting and disconnecting under no-load conditions</i> <i>Spajanje i rastavljanje neopterećenih kola</i>	
<b>AC-21</b>	<i>ON-OFF switching of resistive loads, including moderate overloads</i> <i>Uključivanje i prekidanje aktivnih potrošača, uključujući i umerena preopterećenja</i>	
<b>AC-22</b>	<i>Switching of mixed resistive and inductive loads, including moderate overloads</i> <i>Uključivanje i prekidanje kombiniranih, aktivnih i induktivnih potrošača, uključujući i umerena preopterećenja</i>	
<b>AC-2</b>	<i>Starting slip-ring motors and plugging</i> <i>Pokretanje klizno-kolutnih motora</i>	
<b>AC-23</b>	<i>Switching of motor loads or other highly inductive loads</i> <i>Uključivanje i isključivanje motora ili drugih jako induktivnih potrošača</i>	
<b>AC-3</b>	<i>Starting squirrel-cage motor and switching off motors when running</i> <i>Pokretanje i isključivanje kafezних motora pri punoj brzini</i>	
<b>AC-4</b>	<i>Starting squirrel-cage motors, plugging, inching, reversing</i> <i>Pokretanje kafezних motora, intermitiran pogon, reverziranje</i>	
<b>AC-15</b>	<i>Control switch for switching magnetic devices, contactors, valves</i> <i>Upravljanje elektromagnetnih pogona (sklopnika, ventila i sl.).</i>	

# TECHNICAL DATA / *TEHNIČKI PODACI*

TYPE / <i>TIP</i>		BS 10	BS 20	BS 25	BS 32	BS 40	BS 50	BS 63	
Rated insulation voltage <i>Nazivni izolacijski napon</i> $U_i$	V	400			690				
Rated impulse withstand voltage <i>Nazivni udarni podnosivi napon</i> $U_{imp}$	kV	4			6				
Rated thermal current <i>Nazivna termička struja</i> $I_{th}$	A	20	25	32	40	50	63	70	
Main switch (1) Max. value of rated operational voltage <i>Glav. sklopka Najveća vrijednost naziv. pogon. napona</i>	V	480							
Rated impulse withstand voltage <i>Nazivni udarni podnosivi napon</i>	kV	4							
Max. fuse size for short circuit protection <i>Max. veličina osigurača za Zaštitu od kratkog spoja</i> gL 10 kA	A	20	25	32	40	50	63	70	
Rated Short-time Withstand current <i>Nazivna kratkotrajno podnosiva struja</i> $I_{cw}$	A	200	250	400	600	800	800	800	
	A	120	150	250	400	530	640	700	
	A	70	80	140	240	290	320	350	
	A	40	50	90	150	200	230	250	
	A	30	40	70	120	150	150	150	
Rated operational current $I_o$ AC1 / AC21 <i>Nazivna pogonska struja <math>I_o</math> AC1/AC21</i>	A	10	20	25	32	40	50	63	
Rated operational current $I_o$ AC15 <i>Nazivna pogonska struja <math>I_o</math> Ac15</i> 110V	A	8	10	20	25	40	45	50	
	A	6	8	20	25	30	35	40	
	A	4	6	16	20	25	32	40	
	A			8	8,5	8.5	9	10	
Motor switch in utilization category <i>Motorska sklopka za kategoriju upotrebe</i>									
AC3 3-phase <i>3-faze</i> 500/690 V	kW	2.5	3	5.5	7.5	9	10	11	
<b>380/400 V</b>	<b>kW</b>	<b>4</b>	<b>5</b>	<b>7.5</b>	<b>11</b>	<b>15</b>	<b>16</b>	<b>18.5</b>	
1-phase <i>1-faza</i> 2 poles <i>2 pola</i> 110V	kW	-	-	11	15	19	20	22	
	kW	0.8	0.8	1.5	2.5	2.5	3	3	
220/230 V	kW	1.5	2.2	3	4.8	5.5	5.5	6	
380/400 V	kW	2.2	3	5.5	6.5	7.5	9	11	
AC23 3-phase <i>3-faze</i> 500/690 V	kW	3	5	6.5	8	9	10	15	
<b>380/400 V</b>	<b>kW</b>	<b>6</b>	<b>7.5</b>	<b>11</b>	<b>15</b>	<b>18.5</b>	<b>20</b>	<b>22</b>	
1-phase <i>1-faza</i> 2 poles <i>2 pola</i> 110V	kW	-	-	11	18.5	22	25	30	
	kW	0.8	0.8	1.5	2.5	3	3	3.5	
220/230 V	kW	1.7	2.5	3.7	5	6	7	9	
380/400 V	kW	3	3.7	5.5	7.5	9	11	15	
AC4 3-phase <i>3-faze</i> 500/690 V	kW	1.5	1.5	2.5	3	5	5.5	6	
	kW	2	3	4	5.5	8	9	11	
	kW	-	-	4	7.5	8	9	11	
Mechanical endurance switching cycles <i>Mehanička trajnost Broj uklopa</i>	10 <sup>6</sup>	3	3	3	3	3	2	2	
Terminal screw <i>Priključni vijak</i>		M3.5	M3.5	M3.5	M4	M5	M5	M5	
Screw head <i>Oblik glave vijaka</i>		PZ2	PZ2	PZ1	PZ2	PZ2	PZ2	PZ2	
Tightening torque <i>Moment stezanja</i>		0.8	0.8	0.8	1.2	1.8	2	2	
Cable cross-section <i>Presjek vodiča</i> Rigid/ <i>kruti</i>	mm <sup>2</sup>	2x(1-2.5) 2-4*	2x(1-2.5) 2-4*	2x(1-4) 1-6*	2x(2.5-6) 1-10*	2x(2.5-10)	2x(4-16)	2x(4-16)	
Flexible / <i>finožičani</i>	mm <sup>2</sup>	2x(1-2.5) 2-4*	2x(1-2.5) 2-4*	2x(1-4)	2x(2.5-6) 1-10*	2x(2.5-10)	2x(4-16)	2x(4-16)	

(1) Valid for neutral earthed systems, overvoltage category III, pollution degree 3 /

*Vrijedi za mreže sa uzemljenim zvjezdištem, prenaponska kategorija III, stupanj zagađenja 3*

(\*) Only for diagrams without inside links / *Samo za šeme spoja bez unutrašnjih kratkospojnika.*



## TECHNICAL DATA/ *TEHNIČKI PODACI*








TYPE/ <i>TIP</i>			BS 80	BS 100K	BS 125	BS 200	BS 400	BS 630
Rated insulation voltage <i>Nazivni izolacijski napon</i>	$U_i$	V	690		690			
Rated impulse withstand voltage <i>Nazivni udarni podnosivi napon</i>	$U_{imp}$	kV	6		8			
Rated thermal current <i>Nazivna termička struja</i>	$I_{th}$	A	<b>80</b>	<b>100</b>	<b>125</b>	<b>200</b>	<b>400</b>	<b>630</b>
Main switch (1) <i>Glav. sklopka</i>	Max. value of rated operational voltage <i>Najveća vrijednost naziv. pogon. napona</i>	V	480		690			
Rated impulse withstand voltage <i>Nazivni udarni podnosivi napon</i>		kV	4		6			
Max. fuse size for short circuit protection gL 10 kA <i>Max. veličina osigurača za Zaštitu od kratkog spoja gL 10 kA</i>		A	80	100	120	200	400	630
Rated Short-time 1 sek		A	1000	1800	2100	3000		
Withstand current $I_{cw}$ 3 sek		A	800	900	1300	1700		
	10 sek	A	400	450	700	850		
<i>Nazivna kratkotrajno podnosiva struja</i>	30 sek	A	250	300	400	500		
	60 sek	A	160	200	300	400		
Rated operational current $I_e$ AC1 / AC21 <i>Nazivna pogonska struja <math>I_e</math> AC1/AC21</i>		A	70	75	120	200	400	630
Motor switch in utilization category <i>Motorska sklopka za kategoriju upotrebe</i>								
AC3	220/230 V	kW	12	19	26	37	37	37
3- Phase <i>3-faze</i>	<b>380/400 V</b>	<b>kW</b>	<b>22</b>	<b>32</b>	<b>41</b>	<b>60</b>	<b>60</b>	<b>60</b>
	500/690 V	kW	28	42	55	75	75	75
1-phase 2 poles <i>1-faza 2-pola</i>	110V	kW	-	-	-	-	-	-
	220/230V	kW	-	-	-	-	-	-
	380/400 V	kW	-	-	-	-	-	-
AC23	220/230 V	kW	18,5	22	26	37	37	37
3- Phase <i>3-faze</i>	<b>380/400 V</b>	<b>kW</b>	<b>32</b>	<b>37</b>	<b>41</b>	<b>60</b>	<b>60</b>	<b>60</b>
	500/690 V	kW	45	55	55	75	75	75
1-phase 2 poles <i>1-faza 2-pola</i>	110V	kW	-	-	-	-	-	-
	220/230V	kW	-	-	-	-	-	-
	380/400 V	kW	-	-	-	-	-	-
AC4	220/230V	kW	7	9,5	17	17		
3-phase <i>3-faze</i>	380/400V	kW	12	16	30	30		
	500/690V	kW	12	16	32	32		
Mechanical endurance <i>Mehanička trajnost</i>	switching cycles <i>Broj uklopa</i>	$10^5$	10	10	3	1	0.5	0.5
Terminal screw <i>Priključni vijak</i>			2xM5	2xM5	M8	M10	M12	M16
Cable cross-section <i>Presjek vodiča</i>								
	Flexible / <i>finožičani</i>	mm <sup>2</sup>	6-25 2x(6-16)	6-25 2x(6-16)	16-35	70-95 <sup>(2)</sup>	70-240	70-240
	Flat connection / <i>šine</i>	mm					△	△

(1) Valid for neutral earthed systems, over voltage category III, pollution degree 3 /  
*Vrijedi za mreže sa uzemljenim zvjezdištem, prenaponska kategorija III, stupanj zagađenja 3*



(2) Connection valid for luge with cables having a section; min. 70 mm<sup>2</sup>, max.95 mm<sup>2</sup> /  
*Važi za priključne kablove sa kabelskim stopicama; min. 70 mm<sup>2</sup>, max.95 mm<sup>2</sup> .*

△ Connection valid to connect copper bars / *Važi za spojne bakarne trake.*

## STANDARD MOUNTING FORMS/ *STANDARDNI OBLICI UGRADNJE*

Mounting form <i>Oblik ugradnje</i>	Marking <i>Oznaka</i>	Switch type <i>Tip sklopke</i>	Protection/ <i>Zaštita</i>		Outlook <i>Izgled</i>
			Front <i>Prednja</i>	Rear <i>Stražnja</i>	
Front mounting <i>Ugradna sklopka</i>	<b>U</b>	BS 10 BS 20 BS 25 BS 32 BS 40 BS 50 BS 63	IP 40	IP 20	
		BS 80 BS 100K BS 125 BS 200 BS 400 BS 630	IP 40	IP 00	
Front mounting without indicating plate cover <i>Ugradna sklopka bez sklopa sa natpisnom pločom</i>	<b>M</b>	BS 10 BS 20 BS 25 BS 32 BS 40 BS 50 BS 63	IP 40	IP 20	
		BS 80 BS 100K	IP 40	IP 00	
Rear mounting <i>Ugradnja sa stražnje strane</i>	<b>O</b>	BS 10 BS 20 BS 25 BS 32 BS 40 BS 50 BS 63	IP 40	IP 20	
		BS 80 BS 100K	IP 40	IP 00	
Switch with door interlock device. Door opening only in "0" <i>Sklopka sa spojkom za vrata s blokadom</i> <i>Otvaranje vrata samo u "0"</i>	<b>S8</b>	BS 125 BS 200 BS 400 BS 630	IP 40	IP 00	
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PN</b>	PNBS 10 PNBS 20 PNBS 25	IP 65		
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PNG</b>	PNGBS 25 PNGBS 32 PNGBS 40	IP 65		
	<b>PNG LK</b>	PNGBS 25 .. LK PNGBS 32 .. LK PNGBS 40 .. LK	IP 65		

## STANDARD MOUNTING FORMS/ *STANDARDNI OBLICI UGRADNJE*

Mounting form <i>Oblik ugradnje</i>	Marking <i>Oznaka</i>	Switch type <i>Tip sklopke</i>	Protection/ <i>Zaštita</i>		Outlook <i>Izgled</i>
			Front <i>Prednja</i>	Rear <i>Stražnja</i>	
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PN1</b>	PN1BS 10 PN1BS 20 PN1BS 25	IP 55		
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PN2</b>	PN2BS 32 PN2BS 40 PN2BS 50 PN2BS 63	IP 55		
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PN3</b>	PN3BS 80 PN3BS 100K	IP 54		
Switch in insulated enclosures <i>Sklopka u plastičnom kućištu</i>	<b>PN4</b>	PN4BS 80 PN4BS 100K PN4BS 125 PN4BS 200	IP 54		

**GENERAL EMERGENCY ON - OFF SWITCH VERSION "LK" WITH PADLOCKING ONLY IN "0"**  
**SKLOPKA ZA NUŽNO ISKLAPANJE IZVEDBA "LK" SA ZAKLJUČAVANJE U "0"**

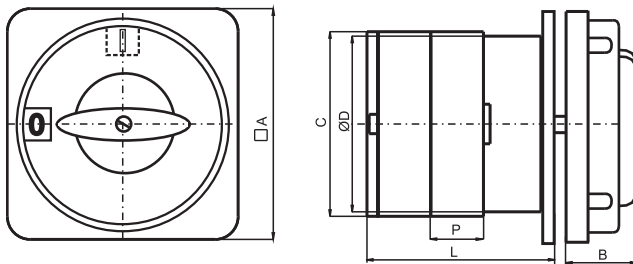
- ! Emergency switch have to make electrical separation between el. supply and electrical equipment.
- ! Control handle according the Standards is Red, and the plate behind the handle yellow .
- ! Emergency switch is able to lock in the open position "0" up to three padlocks.
- ! "LK" - *Glavna sklopka za nužno isklapanje*
- ! *Crvena ručica, žuta prednja ploča i podloga saglasno standardima*
- ! *Glavna sklopka ima mogućnosti zaključavanje u "0" položbu*



BS 25 10 LK (Three-pole)    BS 25 92 LK (Four-pole)  
 BS 32 10 LK (Three-pole)    BS 32 92 LK (Four-pole)  
 BS 40 10 LK (Three-pole)    BS 40 92 LK (Four-pole)  
 BS 50 10 LK (Three-pole)    BS 50 92 LK (Four-pole)  
 BS 63 10 LK (Three-pole)    BS 63 92 LK (Four-pole)

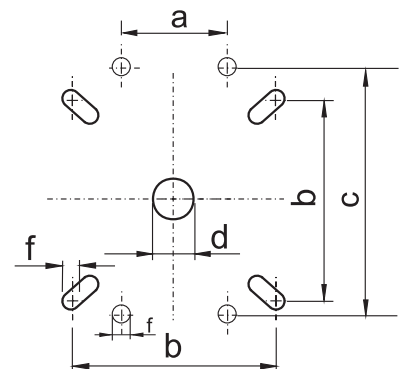
BS 80 10 LK (Three-pole)    BS 80 92 LK (Four-pole)  
 BS 100K 10 LK (Three-pole)    BS 100K 92 LK (Four-pole)  
 BS 125 10 LK (Three-pole)    BS 125 92 LK (Four-pole)  
 BS 200 10 LK (Three-pole)    BS 200 92 LK (Four-pole)  
 BS 400 10 LK (Three-pole)    BS 400 92 LK (Four-pole)  
 BS 630 10 LK (Three-pole)    BS 630 92 LK (Four-pole)

**DIMENSIONAL DRAWINGS VERSION "LK" (mm)**  
**MJERNE SKICE IZVEDBA "LK"**



TYPE / TIP	□A	C	∅D	P	B	L/2	b	d	f	a	c
BS 25 LK	72	45.2	38.6	12.8	32	49.8	58	10	4.2		
BS 32 LK	72	53	38.6	12.8	32	49.8	58	10	4.2		
BS 40 LK	72	61	56.4	17.5	32	68.1	58	10	4.2		
BS 50 LK	72	68.6	56.4	20.5	32	63	58	10	4.2		
BS 63 LK											
BS 80 LK	105	84	80	25	44	92.5	85	14	5.3		
BS 100K LK											
BS 125 LK BS 200 LK	130		110	39	62	100		18	5.3	30	90

**DRILLING PLAN / PLAN BUŠENJA**



**MOUNTING ON THE RAIL /**  
**MONTAŽA NA ŠINU**



BS 10 .. L\*  
 BS 20 .. L\*  
 BS 25 .. L\*  
 BS 32 .. L\*

**"ES" - GENERAL EMERGENCY ON - OFF SWITCH**  
**"ES" - SKLOPKA ZA NUŽNO ISKLAPANJE**



Sizes: BS 10; .... ; BS 100K  
 Veličine: BS 10; .... ; BS 100K

\* Max. up to 4 elements/  
 Max. do 4 elementi

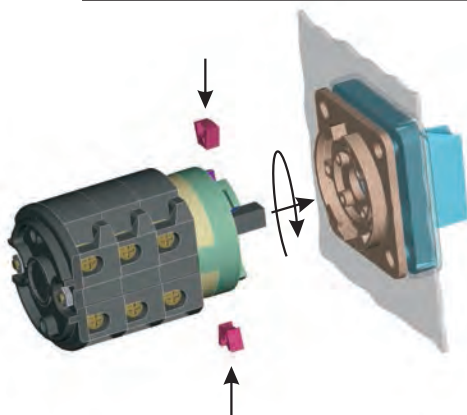
# “BAYONET” ROTARY CAM SWITCHES TYPE BSB

## “BAJONET” GREBENASTE SKLOPKE

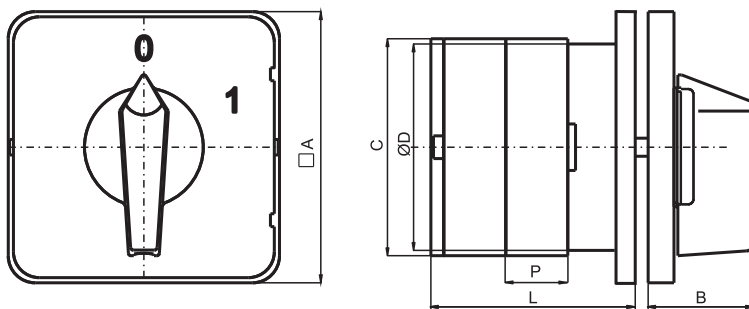
### Selection and ordering data / *Izbor i naračka*



lth A	Description / <i>Opis</i>	Type / <i>Tip</i>
20		<b>BSB 10</b> .. . .
25		<b>BSB 20</b> .. . .
32		<b>BSB 25</b> .. . .
40		<b>BSB 32</b> .. . .
No. of diagram are as the standard version of the model “BS” <i>Br. šeme je isti kao kod standardne verzije “BS”</i> Mounting form - for front “U” <i>Oblik ugradnje - za ugradnju sa prednje strane “U”</i> Front part: C - (handle and front plate - black) - standard P - (handle and front plate - blue) - on request <i>Boja prednjeg sklopa:</i> C - (ručica i prednja ploča su crni) - standardna verzija P - (ručica i prednja ploča su plavi) - na posebno baranje		



### DIMENSIONAL DRAWINGS (mm) / *MJERNE SKICE (mm)*



TYPE/TIP	MARKING / <i>OZNAKA</i>					NUMBER OF ELEMENTS / <i>BROJ ELEMENATA</i> (L/mm)											
	□A	B	C	ØD	P	1	2	3	4	5	6	7	8	9	10	11	12
BSB 10	51,2	27,2	38,6	38,6	12,8	39,5	52,3	65,1	77,9	90,7	103,5	116,3	129,1	141,9	154,7	167,5	180,3
BSB 20						39,5	52,3	65,1	77,9	90,7	103,5	116,3	129,1	141,9	154,7	167,5	180,3
BSB 25	51,2	27,2	45,2	38,6	12,8	39,5	52,3	65,1	77,9	90,7	103,5	116,3	129,1	141,9	154,7	167,5	180,3
BSB 32	51,2	27,2	53	38,6	12,8	44	56,8	69,6	82,4	95,2	108	120,8	133,6	146,4	159,2	172	184,8

### NOTES / *ZABELEŠKA:*

1. Technical data and drilling plan are same as the standard version of the model “BS”  
*1. Tehničke podatke, plan bušenja su iste kao i kod standardne verzije “BS”*
2. The selection of the color for the front parts for “BS” is same as previous case for “BSB”  
*2. Izbor boje prednjeg sklopa za “BS” je isti kao i za “BSB”.*

# ROTARY CAM SWITCHES WITH TITLE TYPE BS ...N

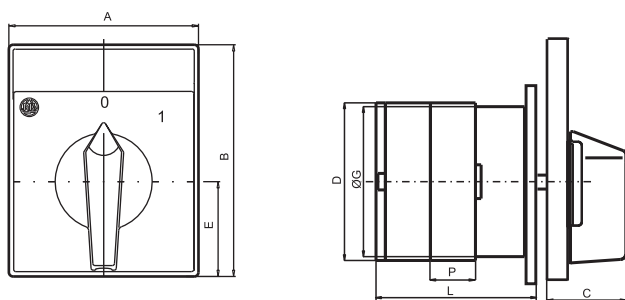
## GREBENASTE SKLOPKE SA NATPISOM TIP BS ...N

### Selection and ordering data / *Izbor i naračka*

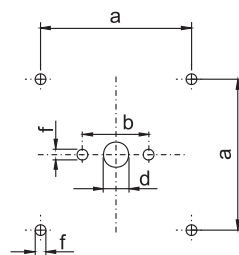
lth A	Description / <i>Opis</i>	Type / <i>Tip</i>
20		<b>BS 10</b> .. . <b>N</b>
25		<b>BS 20</b> .. . <b>N</b>
32		<b>BS 25</b> .. . <b>N</b>
40		<b>BS 32</b> .. . <b>N</b>
50		<b>BS 40</b> .. . <b>N</b>
63		<b>BS 50</b> .. . <b>N</b>
70		<b>BS 63</b> .. . <b>N</b>
80		<b>BS 80</b> .. . <b>N</b>
100		<b>BS 100K</b> .. . <b>N</b>
<p>No. Of diagram are as the standard version of the model "BS"  <i>Br. šeme je isti kao kod standardne tipove "BS"</i></p> <p>Front mounting "U", Rear mounting "O"  <i>Ugradna sklopka "U", Ugradnja sa stražnje strane "O"</i></p> <p>Extended front plate with title <i>Produženi prednji sklop sa natpisom</i>            Standard colour - Black <i>Izrađuje se standardno u crnoj boji</i></p>		



### DIMENSIONAL DRAWINGS (mm) / *MJERNE SKICE (mm)*



### DRILLING PLAN / *PLAN BUŠENJA*



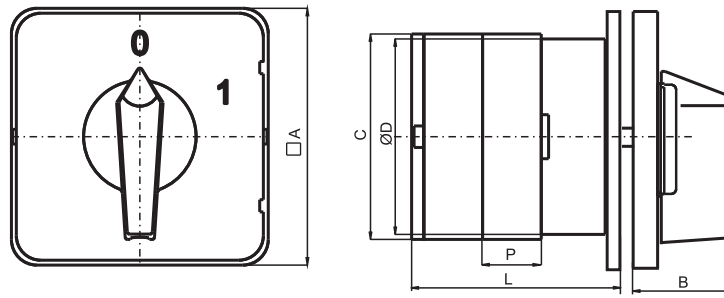
TYPE / <i>TIP</i>	MARKING / <i>OZNAKA</i>					
	A	B	E	C	D	ØG
BS 10 .. N	48	60	24	26	38.6	38.6
BS 20 .. N						
BS 25 .. N	48	60	24	26	45.2	38.6
BS 32 .. N	65	80	32,5	33	53	38.6
BS 40 .. N	65	80	32,5	33	61	56.4
BS 50 .. N	65	80	32,5	33	68.6	56.4
BS 63 .. N						
BS 80 .. N	90	110	45	41	84	80
BS 100K .. N	90	110	45	41	84	80
BSB 20 ..N	48	60	24	26	38.6	38.6
BSB 25 ..N	48	60	24	26	45.2	38.6

TYPE / <i>TIP</i>	a	b	d	f
BS 10 .. N	36	30	10	4.2
BS 20 .. N				
BS 25 .. N				
BS 32 .. N	48		10	4.2
BS 40 .. N				
BS 50 .. N	72		14	5.3
BS 63 .. N				
BS 80 .. N				
BS 100K .. N				
BSB 20 .. N	36		10	4.2
BSB 25 .. N				

### NOTES / *ZABELEŠKA:*

1. Technical data and drilling plan are same as the standard version of the model "BS".  
*1. Tehničke podatke i plan bušenja su iste kao i kod standardne izvedbe "BS".*

**DIMENSIONAL DRAWINGS (mm) / MJERNE SKICE (mm)**



TYPE/TIP	MARKING/ OZNAKA				NUMBER OF ELEMENTS (L/mm) / BROJ ELEMENATA (L/mm)															
	□A	B	C	ØD	P	1	2	3	4	5	6	7	8	9	10	11	12			
BS 10	51,2	27,2	38,6	38,6	12,8	32,5	45,3	58,1	70,9	83,7	96,5	109,3	122,1	134,9	147,7	160,5	173,3			
BS 20																				
BS 25	51,2	27,2	45,2	38,6	12,8	32,5	45,3	58,1	70,9	83,7	96,5	109,3	122,1	134,9	147,7	160,5	173,3			
BS 32	72	33	53	38,6	12,8	37	49,8	62,6	75,4	88,2	101	113,8	126,6	139,4	152,2	165	177,8			
BS 40	72	33	61	56,4	17,5	50,6	68,1	85,6	103,1	120,6	138,1	155,6	173,1	190,6	208,1	225,6	243,1			
BS 50	72	33	68,6	56,4	20,5	42,5	63	83,5	104	124,5	145	165,5	186	206,5	227	247,5	268			
BS 63																				
BS 80	105	41	84	80	25	67,5	92,5	117,5	142,5	167,5	192,5	217,5	242,5	267,5	292,5	317,5	342,5			
BS 100K	105	41	84	80	25	67,5	92,5	117,5	142,5	167,5	192,5	217,5	242,5	267,5	292,5	317,5	342,5			
BS 125	130	62	110	110	30	91	121	151	181											
BS 200					39	100	139	178	217											
BS 400					39	100	139	178	217	-	295									
BS 630					39	-	139	178	-	256	295	-	-	412						

(\*) For the switch with 5-9 elements see the dimensional drawing on page 13. / Za sklopku za 5-9 elemenata pogledaj mjernu skicu na str.13.

FRONT MOUNTING "U" UGRADNJA SA PREDNJE STRANE "U"			TYPE/TIP														
			a	b	a1	b1	c	d	f								
			BS 10														
			BS 20		32-39			30	$\frac{8}{10}$								3.2
			BS 25														
			BS 32														
			BS 40														
			BS 50	58	48						10						4.2
			BS 63														
			BS 80	85	68-74						14						5.3
			BS 100K														
			BS 125														
			BS 200					90	30		18						5.3
			BS 400														
			BS 630														

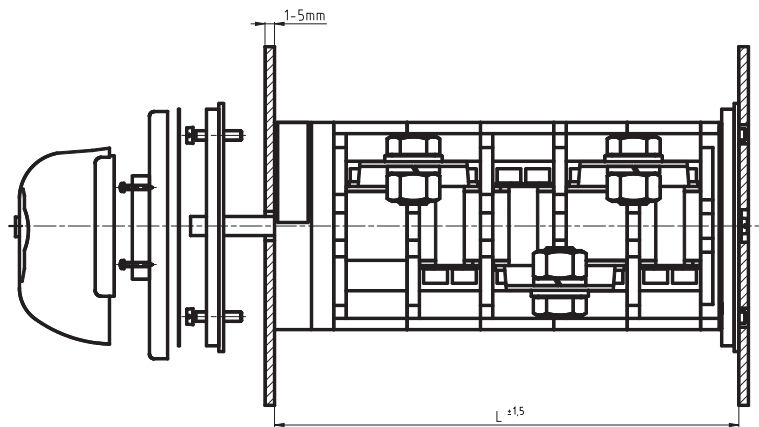
  

FRONT MOUNTING "M" UGRADNJA SA PREDNJE STRANE "M"			TYPE/TIP			
			h	d	g	
			BS 10		8	
			BS 20	13,5	10	3,5
			BS 25			
			BS 32			
			BS 40	16,2	10	4
			BS 50			
			BS 63			
			BS 80	20	14	4,5
			BS 100K			

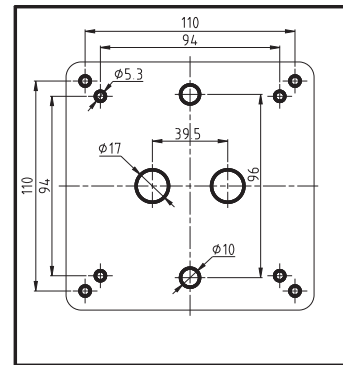
  

REAR MOUNTING "O" UGRADNJA SA STRAŽNJE STRANE "O"			TYPE/TIP				
			a	b	f	k	
			BS 10	36	36	4,2	15,5
			BS 20				
			BS 25				
			BS 32	58	48	4,5	17
			BS 40				
			BS 50	58	48	4,5	
			BS 63				
			BS 80	85	68	5,3	20,5
			BS 100K				

**DIMENSIONAL DRAWINGS FOR "U" FOR BS 125 - 630 WITH 5-9 ELEMENTS (mm) /  
MJERNE SKICE ZA "U" ZA BS 125 - 630 (mm)**



DRILLING PLAN FROM REAR SITE /  
PLAN BUŠENJA SA ZADNJE STRANE



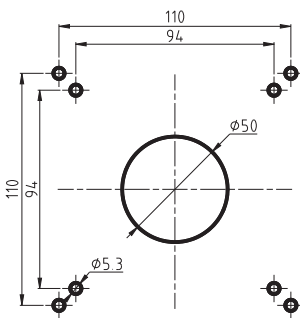
Size / Veličina	No. of el. / Broj elemenata - L (mm)				
	5	6	7	8	9
BS 125	191	251	281	311	341
BS 200	236	305	344	383	422
BS 400	236	305	344	383	422
BS 630	236	305	-	383	422

Note / *Zabjeleška:*

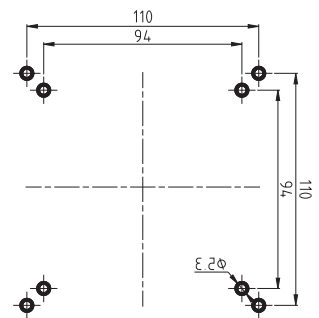
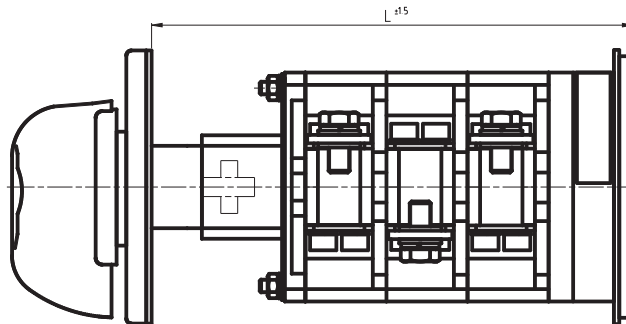
- For the switch with 5-9 elements the front plate is also mounted at the back side /
- *Za skopku sa 5-9 elemenata ugrađujemo prednju ploču i straga*

**DIMENSIONAL DRAWINGS FOR "S8" FOR BS 125 - 630  
MJERNE SKICE ZA "S8" ZA BS 125 - 630 (mm)**

DRILLING PLAN / PLAN BUŠENJA



ON THE DOOR /  
*NA VRATU*



LOOK FROM REAR SITE /  
*POGLED SA ZADNJE STRANE*

Size / Veličina	No. of el. / Broj elemenata - L (mm)				
	1	2	3	4	5
BS 125	150	180	210	240	270
BS 200	159	198	237	276	315
BS 400	159	198	237	276	315
BS 630	-	198	237	-	315

**SWITCHES SERIES BS 125 - BS 630  
SKLOPKE SERIJE BS 125 - BS 630**

CODE <i>ŠEMA</i>	Number of elements / Broj elemenata			
	BS 125	BS 200	BS 400	BS 630
10	2	2	3	5
92	2	2	4	6
52	2	2	4	6
53	3	3	6	9
11	3	3		



When ordering please define:

- 1.- Switch type
- 2.- Number of schematic diagram
- 3.- Mounting form ( for front "U" or rear mounting "O")
- 4.- Front part:  
 C - (handle and front plate - black) - standard.  
 P - (handle and front plate - blue) - on request.  
 N - Extended front plate with title. Standard colour : black  
 LK - (red knob and yellow plate for main emergency on - off switch).  
 ES - (handle-red and front plate-yellow)

**EXAMPLE:**

BS 25	10	U	C
-------	----	---	---

Type - **BS 25**, schematic diagram - **10**, mounting form - **U**, with **black** handle and front plate - **C**.

BS 40	10	U	N
-------	----	---	---

Type - **BS 40**, schematic diagram - **10**, mounting form - **U**, Extended front plate with title - **N**.

BS 63	10	LK
-------	----	----

Type - **BS 63**, schematic diagram - **10**, Main emergency on-off switch with 3 padlock facility in "0" position - **LK**

### **PODACI ZA NARUČIVANJE:**

*Prilikom naručivanja sklopke potrebno je definirati:*

- 1.- Tip sklopke
- 2.- Broj šeme
- 3.- Oblici ugradnje ( ugradnja sa prednje strane "U" ili ugradnja sa stražne strane "O" )
- 4.- Boja prednjeg sklopa:  
 C - (ručica i prednja ploča su crne boje ) - standardna verzija  
 P - (ručica i prednja ploča su plave boje ) - na posebno baranje  
 N - Produženi prednji sklop sa natpisom. Izrađuje se standardno u crnoj boji  
 LK - (crvena ručica, žuta prednja ploča za nužno isklapanje).  
 ES - (crvena ručica, žuta prednja ploča)

**PRIMER:**

BS 25	10	U	C
-------	----	---	---

*Tip - **BS 25**, broj šeme - **10**, ugradnja sa prednje strane - **U**, sa ručicom i prednjeg sklopa crni - **C**.*

BS 40	10	U	N
-------	----	---	---

*Tip - **BS 40**, broj šeme - **10**, ugradnja sa prednje strane - **U**, produženi prednji sklop sa natpisom - **N**.*

BS 63	10	LK
-------	----	----

*Tip - **BS 63**, broj šeme - **10**, Glavna sklopka za nužno isklapanje, Zaključavanje u "0"-om položaju - **LK***

# ROTARY CAM SWITCHES IN INSULATED ENCLOSURES

## GREBENASTE SKLOPKE U PLASTIČNOM KUĆIŠTU

### Selection and ordering data / Izbor i naračka



PNBS 20, PNBS 25



PNGBS 25, PNGBS 32,  
PNGBS 40



PNGBS 25..LK, PNGBS 32..LK,  
PNGBS 40..LK



PN1BS 10, PN1BS 20  
PN1BS 25

	Degree of protection	Type / Tip
Number of elements 1-3	IP 65	<b>PNBS 10</b> .. . <b>PNBS 20</b> .. . <b>PNBS 25*</b> .. .
No. of diagram / <i>Br. šeme</i> - (90, 91, 10, 92, 51, 52, 53, 54, 55, 56, 11, 15)		
Front parts C - (handle and front plate of rotary cam switches - black) P - (handle and front plate of rotary cam switches - blue)		<i>Boja prednjeg sklopa:</i> C - (ručica i prednja ploča su crni) P - (ručica i prednja ploča su plavi)
Number of elements 1-3 for BS 25, BS 32, BS 32 ..LK	IP 65	<b>PNGBS 25</b> .. . <b>PNGBS 32</b> .. . <b>PNGBS 40</b> .. .
Number of elements 1-2 for BS 40, BS 40..LK		<b>PNGBS 25</b> .. LK <b>PNGBS 32</b> .. LK <b>PNGBS 40</b> .. LK
No. of diagram for / <i>Br. šeme za</i> PNGBS 25 - (90, 91, 10, 92, 51, 52, 53, 54, 55, 56, 11, 15)		
No. of diagram for / <i>Br. šeme za</i> PNGBS 32 - (90, 91, 10, 92, 51, 52, 53, 54, 55, 56, 11, 15)		
No. of diagram for / <i>Br. šeme za</i> PNGBS 40 - (90, 91, 10, 92, 51, 52, 54, 55)		
Front parts C - (handle and front plate of rotary cam switches - black) P - (handle and front plate of rotary cam switches - blue)		<i>Boja prednjeg sklopa:</i> P - (ručica i prednja ploča su plavi) C - (ručica i prednja ploča su crni)
Number of elements 4-6	IP 55	<b>PN1BS 10</b> .. . <b>PN1BS 20</b> .. . <b>PN1BS 25</b> .. .
No. of diagram - (12, 13, 75, 69, 19, 97, 98)		
Front parts P - (handle and front plate of rotary cam switches - blue) C - (handle and front plate of rotary cam switches - black)		

#### NOTES:

Color of enclosures ist grey (RAL 7035)

\* Only with conection cable up to 2.5 mm<sup>2</sup>

# ROTARY CAM SWITCHES IN INSULATED ENCLOSURES

## GREBENASTE SKLOPKE U PLASTIČNOM KUĆIŠTU

### Selection and ordering data /



PN2BS 32, PN2BS 40,  
PN2BS 50, PN2BS 63

	Degree of protection	Type
Number of elements 4-5 for BS 32 Number of elements 3-5 for BS 40 Number of elements 1-4 for BS 50, BS 63	IP 55	PN2BS 32 .. .
		PN2BS 40 .. .
		PN2BS 50 .. .
		PN2BS 63 .. .

No. of diagram for PN2BS 32 - ( 75, 69, 13, 12, 19, 97, 98)  
 No. of diagram for PN2BS 40 - ( 53,75, 56, 69, 11,13, 12, 26,19, 97, 98)  
 No. of diagram for PN2BS 50 and PN2BS 63 - ( 90, 91, 10, 92, 51, 52, 53, 75, 54, 55, 56, 69, 11, 13, 12, 26,19, 15, 207, 98)

Front parts  
 P - (handle and front plate of rotary cam switches - blue)  
 C - (handle and front plate of rotary cam switches - black)



PN3BS 80, PN3BS 100K

Number of elements 1-3	IP 54	PN3BS 80 .. .
		PN3BS 100K .. .

No. of diagram - (90, 91, 10, 92, 51, 52, 53, 54, 55, 56, 11, 26, 15, )

Front parts  
 P - (handle and front plate of rotary cam switches - blue)  
 C - (handle and front plate of rotary cam switches - black)



PN4BS 80, PN4BS 100K  
PN4BS 125, PN4BS 200

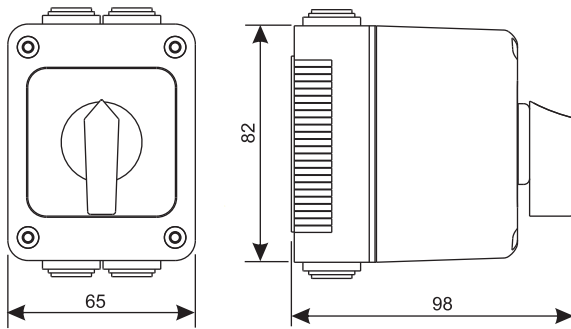
Number of elements 4 for BS 80 and BS 100K Number of elements 1-3 for BS 125 Number of elements 1-2 for BS 200	IP 54	PN4BS 80 .. .
		PN4BS 100K .. .
		PN4BS 125 .. .
		PN4BS 200 .. .

No. of diagram for PN4 BS 80, 100K - (12, 13, 19, 75, 98)  
 No. of diagram for PN4 BS 125 - (10, 11, 51, 52, 53, 54, 55, 56, 92 )  
 No. of diagram for PN4 BS 200 - (10, 51, 52, 54, 55, 92)

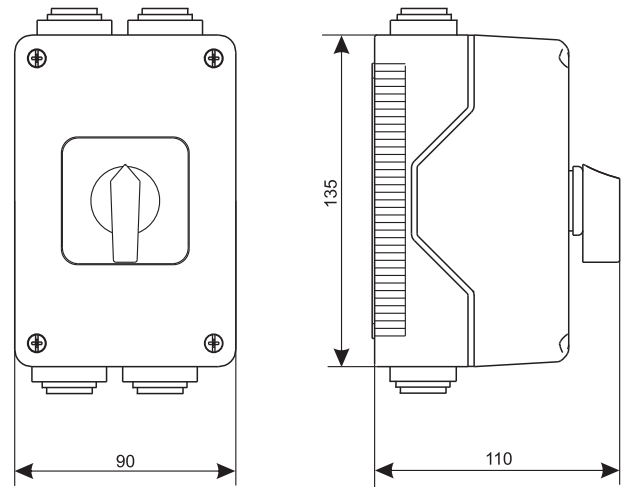
Front parts  
 P - (handle and front plate of rotary cam switches - blue)  
 C - (handle and front plate of rotary cam switches - black)

**DIMENSION DRAWINGS (mm) / MJERNE SKICE (mm)**

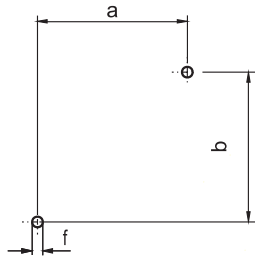
**PNBS 10, 20, 25**



**PNGBS 25, PNGBS 32 , PNGBS 40**



**DRILLING PLAN / PLAN BUŠENJA**



TYPE/ TIP	a	b	f
PNBS 10,20 PNBS 25	44	48	4,3
PNGBS 25 PNGBS 32 (LK) PNGBS 40 (LK)	48	100	4,3

**NOTES / ZABELEŠKA**

Color of enclosures ist grey (RAL 7035)

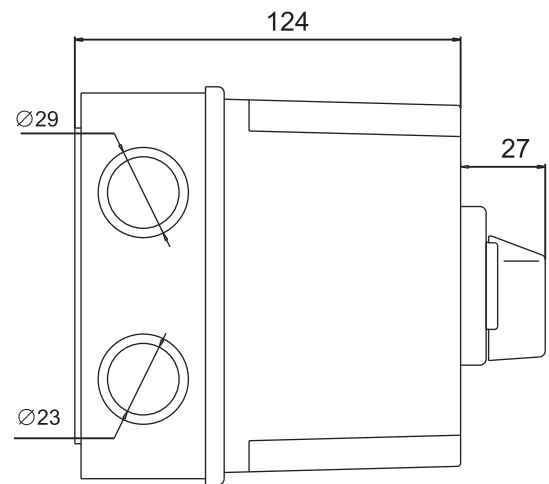
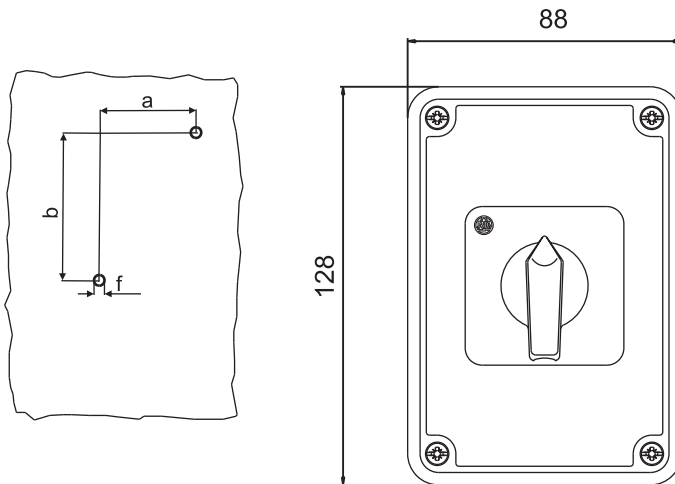
\* Only with conection cable up to 2.5 mm<sup>2</sup>

*Boja kućišta je siva (RAL 7035)*

*\* Samo za priključne kablove do 2.5 mm<sup>2</sup>*

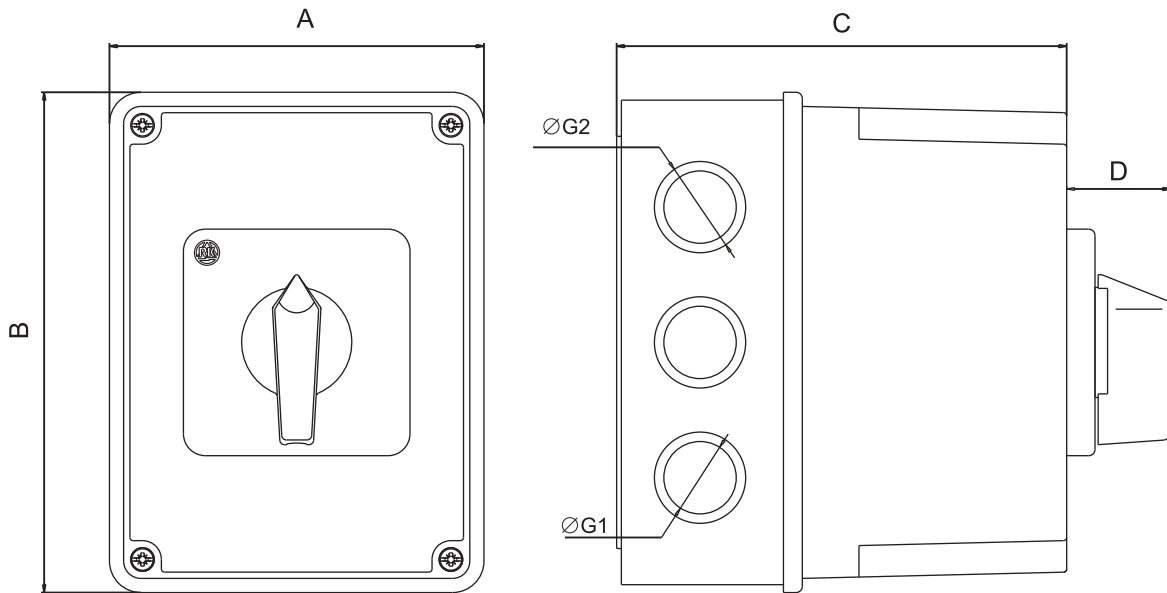
**PN1BS 10 , PN1BS 20 , PN1BS 25**

**DRILLING PLAN / PLAN BUŠENJA**



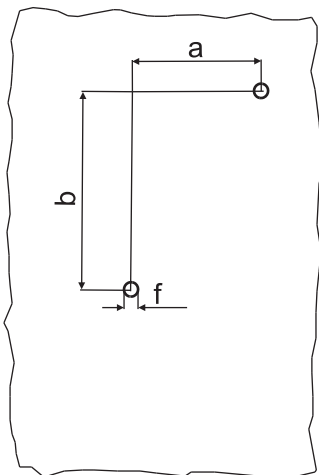
TYPE	a	b	f
PN1BS 10 PN1BS 20 PN1BS 25	42	82	4,3

**DIMENSION DRAWINGS (mm) / MJERNE SKICE (mm)**



TYPE / TIP	MARKING / OZNAKA					
	A	B	C	D	ØG1	ØG2
PN2BS 32, PN2BS 40 PN2BS 50, PN2BS 63	119	159	143	33	23	29
PN3BS 80, PN3BS 100K	155	201	148	41	29	37
PN4BS 80, PN4BS 100K	210	260	168	41	29	37
PN4BS125, PN4BS 200	210	260	168	57	29	37

**DRILLING PLAN / PLAN BUŠENJA**



TYPE	a	b	f
PN2BS 32 PN2BS 40 PN2BS 50 PN2BS 63	72	112	4,5
PN3BS 80 PN3BS 100K	98	144	4,5
PN4BS 80 PN4BS 100K PN4BS 125 PN4BS 200	140	194	4,3

## CONTENTS / *SODRŽINA*:

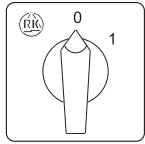
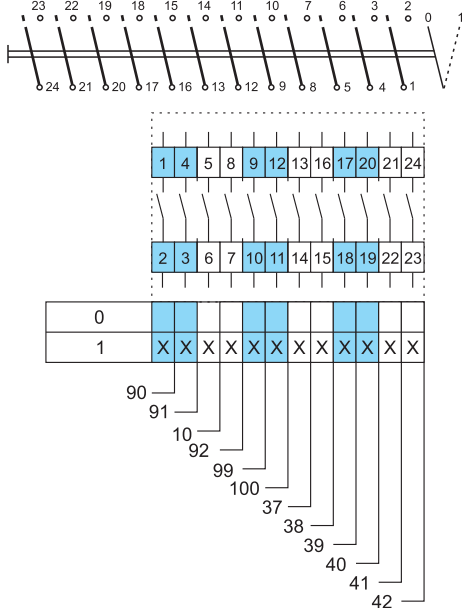
Diagrams in this catalog are the same for BS and PS series cam switches

*Šeme za grebenaste sklopke BS I PS serije, su potpuno iste u ovom katalogu*

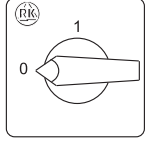
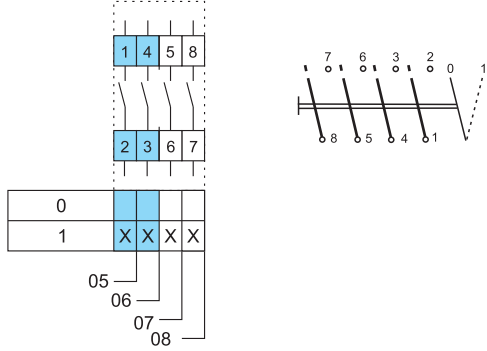
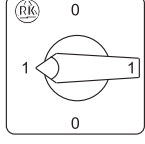
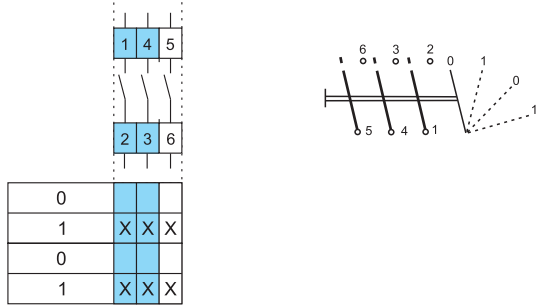
SWITCHES WITH 60° SWITCHING / <i>SKLOPKE S KUTOM ZAKRETA 60°</i> .....	21
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FUNCTION <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	CODE	No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
-----------------------------	------------------------------------	------	----------------------------------	--

**SWITCHES WITH 60° SWITCHING**  
*SKLOPKE S KUTOM ZAKRETA 60°*

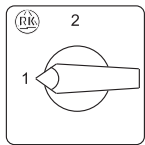
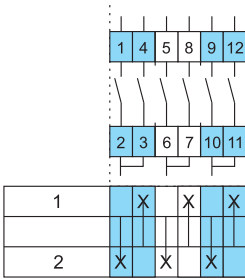
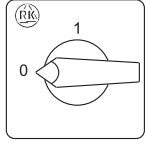
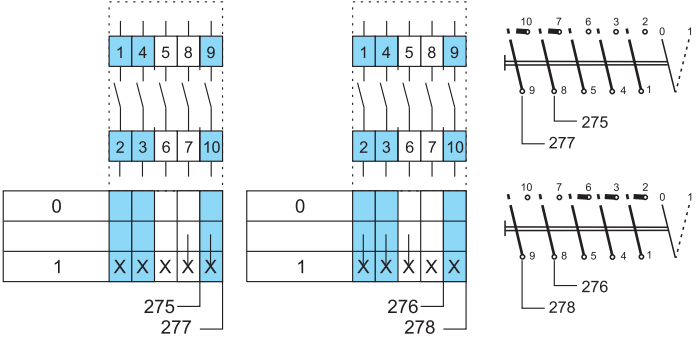
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i> 5 pole <i>5 polna</i> 6 pole <i>6 polna</i> 7 pole <i>7 polna</i> 8 pole <i>8 polna</i> 9 pole <i>9 polna</i> 10 pole <i>10 polna</i> 11 pole <i>11 polna</i> 12 pole <i>12 polna</i>		<b>90</b>	1	
		<b>91</b>	1	
		<b>10</b>	2	
		<b>92</b>	2	
		<b>99</b>	3	
		<b>100</b>	3	
		<b>37</b>	4	
		<b>38</b>	4	
		<b>39</b>	5	
		<b>40</b>	5	
		<b>41</b>	6	
		<b>42</b>	6	

**SWITCHES WITH 90° SWITCHING**  
*SKLOPKE S KUTOM ZAKRETA 90°*

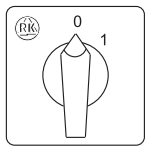
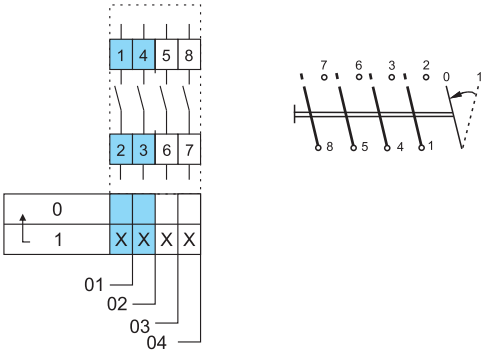
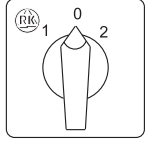
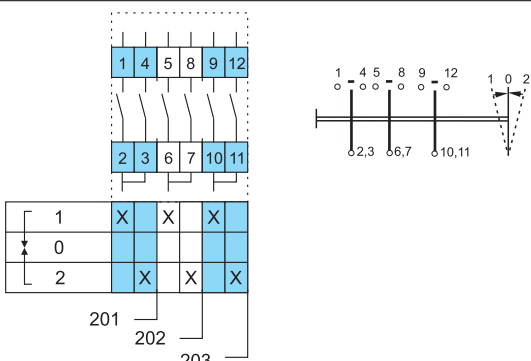
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i>		<b>05</b>	1	
		<b>06</b>	1	
		<b>07</b>	2	
		<b>08</b>	2	
3 pole (360° rotation) <i>3 polna (rotacija 360°)</i>		<b>09</b>	2	

FUNCTION <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	CODE	No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**SWITCHES WITH 90° SWITCHING**  
**SKLOPKE S KUTOM ZAKRETA 90°**

<p>3 pole current change over switch <i>3 polna strujna preklopka</i></p>		<p><b>57</b></p>	<p>3</p>	 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td></tr> </table>	1	X	X	X	2	X	X	X
1	X	X	X									
2	X	X	X									
<p>4 pole 1 pole preclose <i>4 polna 1 pol predhodi</i> 5 pole 2 pole preclose <i>5 polna 2 pola prethode</i> 4 pole 3 pole preclose <i>4 polna 3 pola prethode</i> 5 pole 3 pole preclose <i>5 polna 3 pola prethode</i></p>		<p><b>275</b> <b>277</b> <b>276</b> <b>278</b></p>	<p>2 3 2 3</p>									

**SWITCHES SPRING RETURN WITH 30° SWITCHING**  
**SKLOPKE S POVRAATOM - KUT ZAKRETA 30°**

<p>1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i></p>		<p><b>01</b> <b>02</b> <b>03</b> <b>04</b></p>	<p>1 1 2 2</p>	
<p>1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i></p> <p>With spring return to "0" <i>S povratom u "0"</i></p>		<p><b>201</b> <b>202</b> <b>203</b></p>	<p>1 2 3</p>	



<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	No. of elem. <i>Bř. elem.</i>	Connection diagram / <i>Šema spoja</i>
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### CHANGEOVER SWITCHES WITH "0" - 60° SWITCHING

#### PREKLOPKE S "0" POLOŽAJEM - KUT ZAKRETA 60°

1 pole <i>1 polna</i>		<b>51</b>	1	
2 pole <i>2 polna</i>		<b>52</b>	2	
3 pole <i>3 polna</i>		<b>53</b>	3	
4 pole <i>4 polna</i>		<b>75</b>	4	
5 pole <i>5 polna</i>		<b>76</b>	5	
6 pole <i>6 polna</i>		<b>77</b>	6	
7 pole <i>7 polna</i>		<b>78</b>	7	
8 pole <i>8 polna</i>		<b>79</b>	8	
9 pole <i>9 polna</i>		<b>80</b>	9	
10 pole <i>10 polna</i>		<b>81</b>	10	
11 pole <i>11 polna</i>		<b>182</b>	11	
12 pole <i>12 polna</i>		<b>183</b>	12	

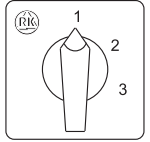
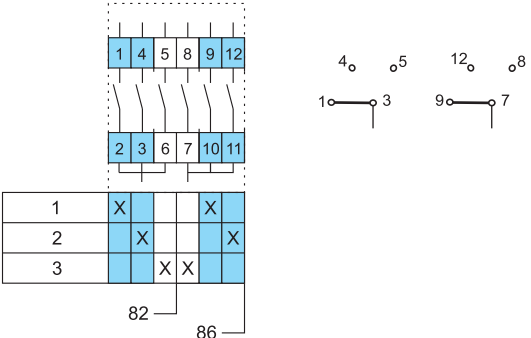
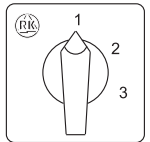
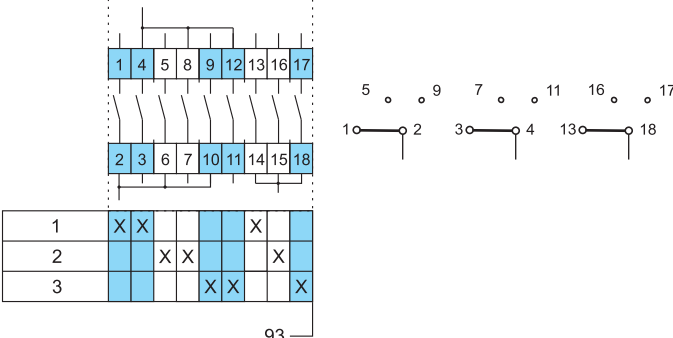
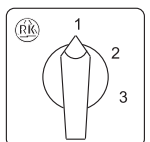
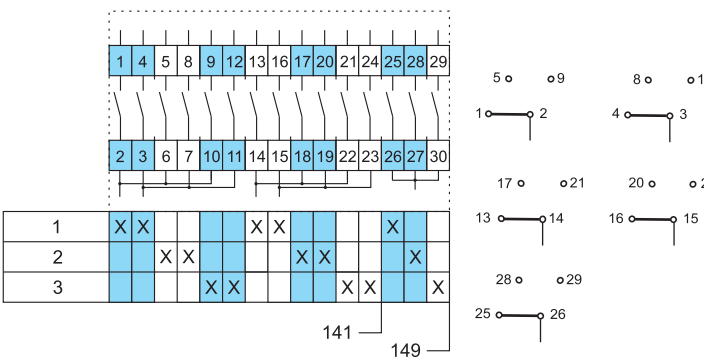
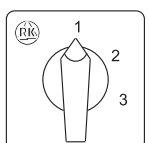
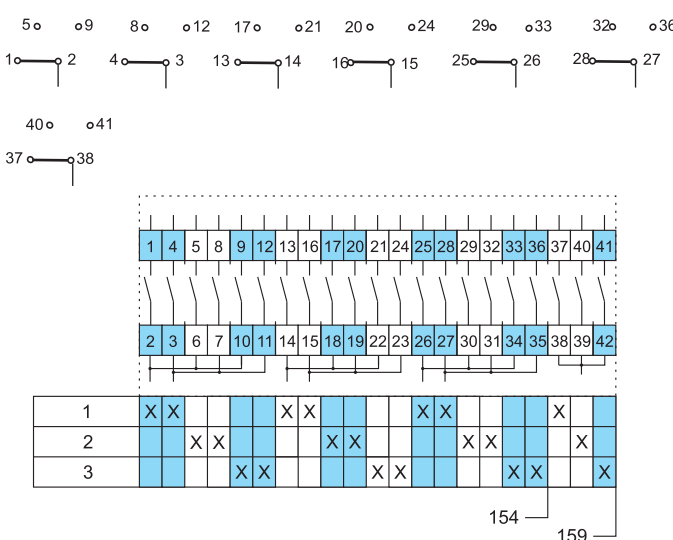
### CHANGEOVER SWITCHES WITHOUT "0" - 90° SWITCHING

#### PREKLOPKE BEZ "0" POLOŽAJEM - KUT ZAKRETA 90°

1 pole <i>1 polna</i>		<b>54</b>	1	
2 pole <i>2 polna</i>		<b>55</b>	2	
3 pole <i>3 polna</i>		<b>56</b>	3	
4 pole <i>4 polna</i>		<b>69</b>	4	
5 pole <i>5 polna</i>		<b>70</b>	5	
6 pole <i>6 polna</i>		<b>71</b>	6	
7 pole <i>7 polna</i>		<b>72</b>	7	
8 pole <i>8 polna</i>		<b>73</b>	8	
9 pole <i>9 polna</i>		<b>74</b>	9	
10 pole <i>10 polna</i>		<b>62</b>	10	
11 pole <i>11 polna</i>		<b>43</b>	11	
12 pole <i>12 polna</i>		<b>44</b>	12	

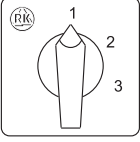
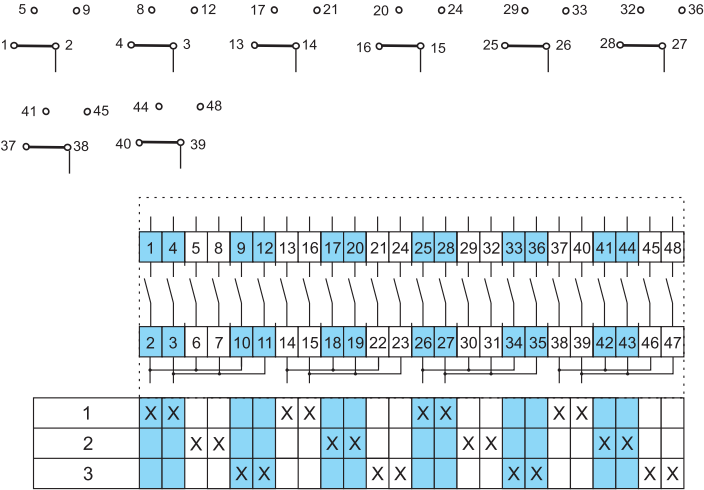
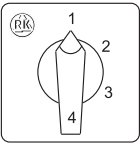
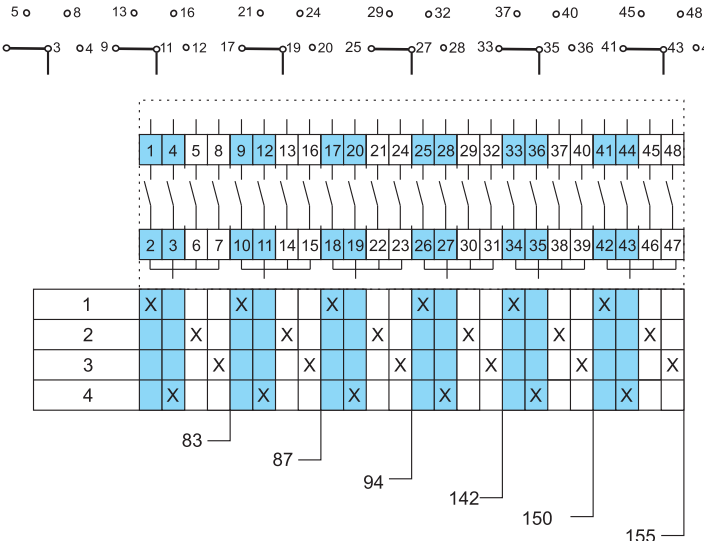
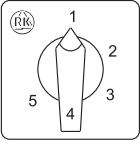
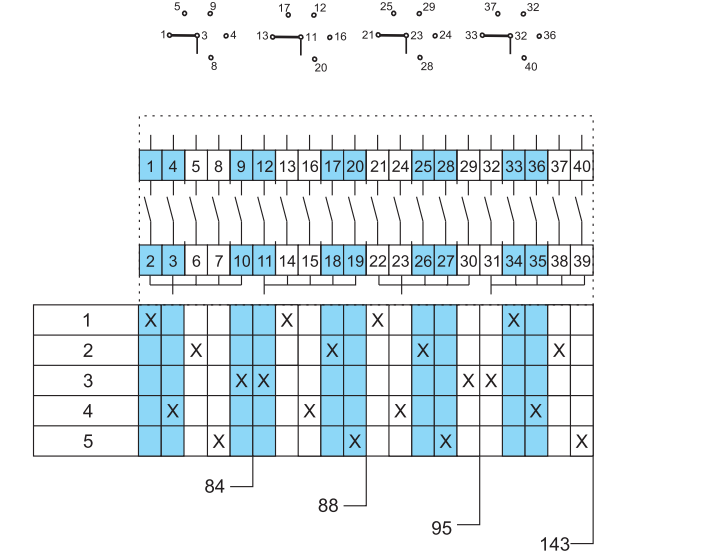
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> <i>No. of elem.          Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITHOUT "0"**  
**STEPENASTE SKLOPKE BEZ "0" POLOŽAJA**

1 pole <i>1 polna</i> 2 pole <i>2 polna</i>	3 positions <i>3 položaja</i> 	<b>82</b> <b>86</b>	2 3  <table border="1" data-bbox="762 566 1007 663"> <tr><td>1</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>3</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> </table>	1	X			X		2		X			X	3			X	X																												
1	X			X																																												
2		X			X																																											
3			X	X																																												
3 pole <i>3 polna</i>	3 positions <i>3 položaja</i> 	<b>93</b>	5  <table border="1" data-bbox="762 978 1070 1075"> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> </table>	1	X	X				X			2			X	X			X		3					X	X		X																		
1	X	X				X																																										
2			X	X			X																																									
3					X	X		X																																								
4 pole <i>4 polna</i> 5 pole <i>5 polna</i>	3 positions <i>3 položaja</i> 	<b>141</b> <b>149</b>	6 8  <table border="1" data-bbox="730 1359 1182 1456"> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> </table>	1	X	X			X	X			X			X		2			X	X			X	X			X		X	3					X	X			X	X		X	X			
1	X	X			X	X			X			X																																				
2			X	X			X	X			X		X																																			
3					X	X			X	X		X	X																																			
6 pole <i>6 polna</i> 7 pole <i>7 polna</i>	3 positions <i>3 položaja</i> 	<b>154</b> <b>159</b>	9 11  <table border="1" data-bbox="762 1919 1342 2016"> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td></tr> </table>	1	X	X			X	X			X	X			X		2			X	X			X	X			X	X		X	3					X	X			X	X			X	X
1	X	X			X	X			X	X			X																																			
2			X	X			X	X			X	X		X																																		
3					X	X			X	X			X	X																																		

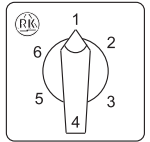
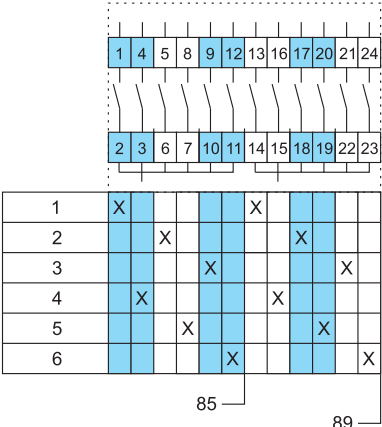
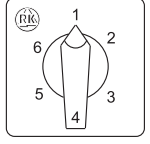
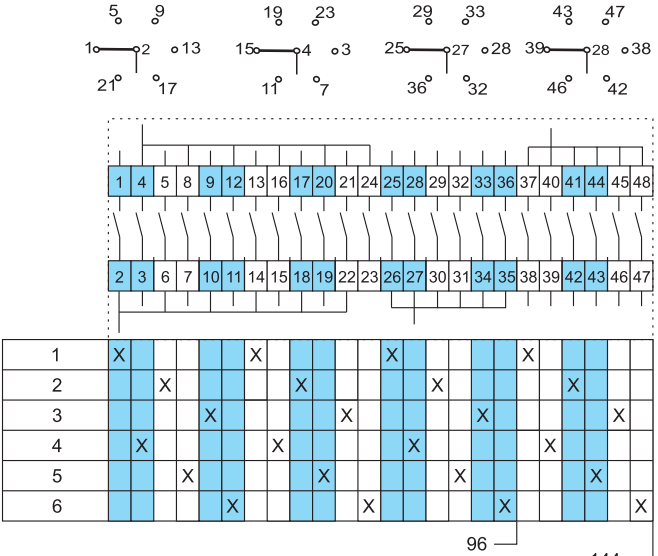
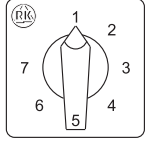
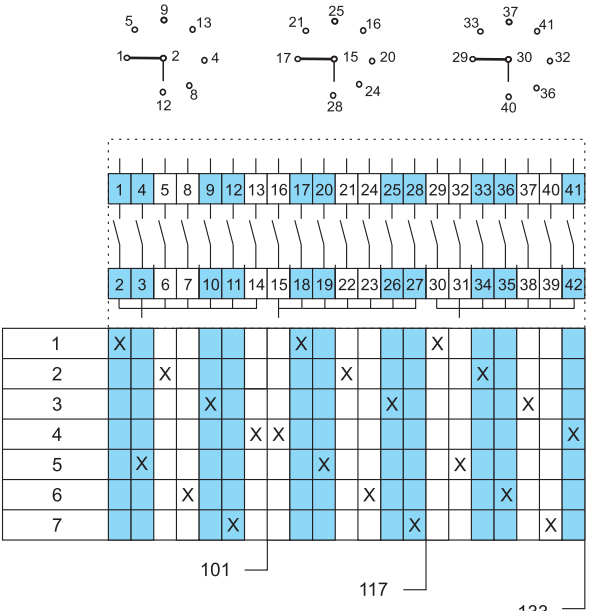
<b>FUNCTION</b> <b>FUNKCIJA</b>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITHOUT "0"**  
**STEPENASTE SKLOPKE BEZ "0" POLOŽAJA**

8 pole <i>8 polna</i> 3 positions <i>3 položaja</i>		<b>162</b> 12	
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i> 5 pole <i>5 polna</i> 6 pole <i>6 polna</i> 4 positions <i>4 položaja</i>		<b>83</b> <b>87</b> <b>94</b> <b>142</b> <b>150</b> <b>155</b> 2 4 6 8 10 12	
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i> 5 positions <i>5 položaja</i>		<b>84</b> <b>88</b> <b>95</b> <b>143</b> 3 5 8 10	

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITHOUT "0"**  
**STEPENASTE SKLOPKE BEZ "0" POLOŽAJA**

1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 6 positions <i>6 položaja</i>		<b>85</b> <b>89</b> 3 6	
3 pole <i>3 polna</i> 4 pole <i>4 polna</i> 6 positions <i>6 položaja</i>		<b>96</b> <b>144</b> 9 12	
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 7 positions <i>7 položaja</i>		<b>101</b> <b>117</b> <b>133</b> 4 7 11	

FUNCTION  
FUNKCIJA

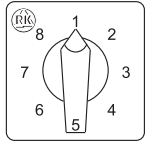
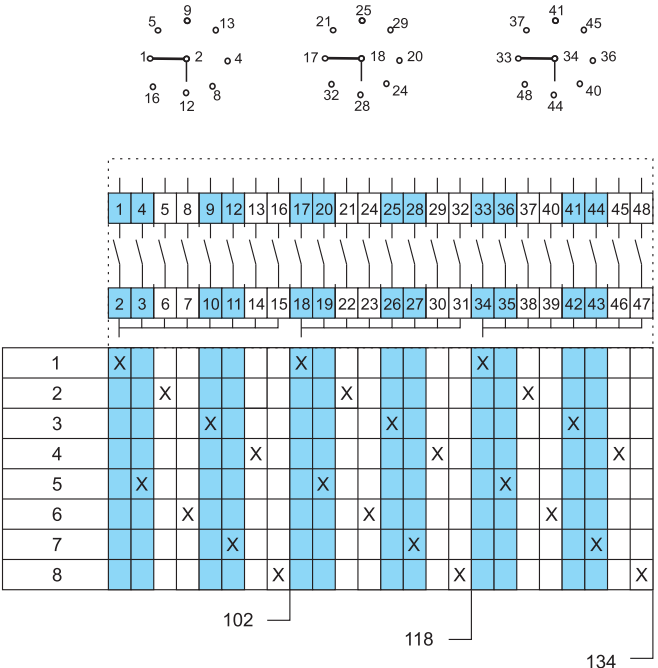
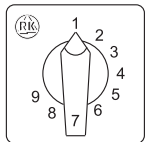
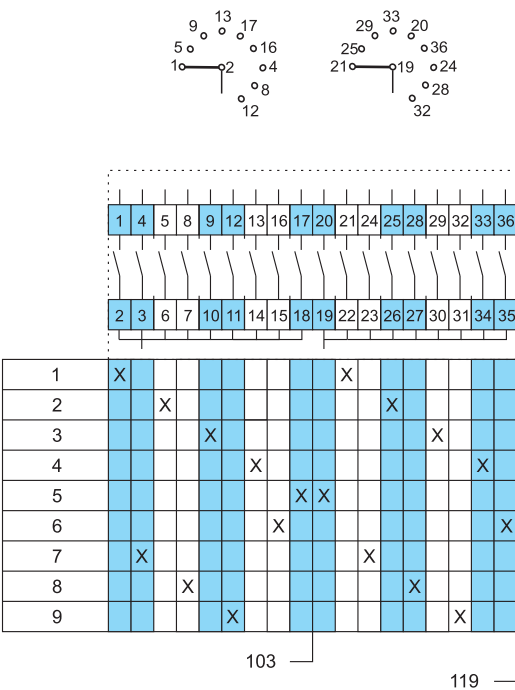
Escutcheon plate  
Podloga

CODE

No. of elem.  
Br. elem.


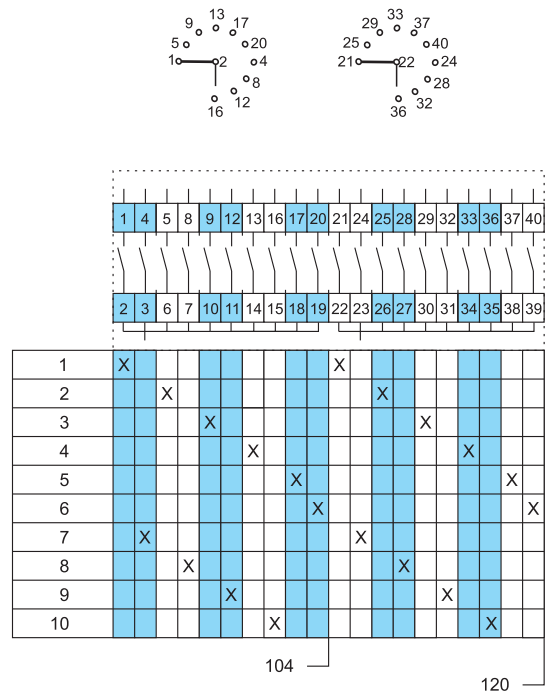
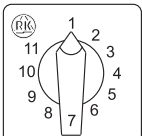
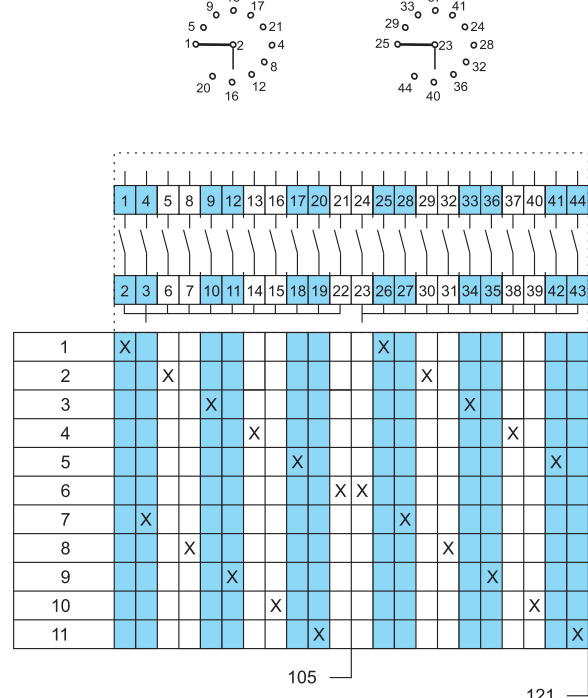
Connection diagram / Šema spoja

MULTI-STEP SWITCHES WITHOUT "0"  
STEPENASTE SKLOPKE BEZ "0" POLOŽAJA

<p>1 pole 1 polna 2 pole 2 polna 3 pole 3 polna</p> <p>8 positions 8 položaja</p> 	<p><b>102</b> <b>118</b> <b>134</b></p>	<p>4 8 12</p>	
<p>1 pole 1 polna 2 pole 2 polna</p> <p>9 positions 9 položaja</p> 	<p><b>103</b> <b>119</b></p>	<p>5 9</p>	


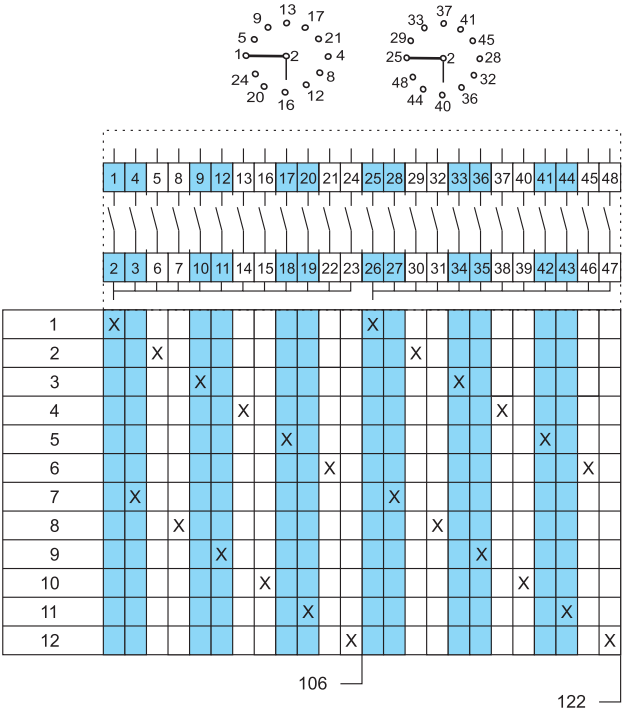
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> <small>No. of elem. Br. elem.</small>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITHOUT "0"**  
**STEPENASTE SKLOPKE BEZ "0" POLOŽAJA**

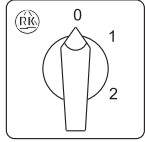
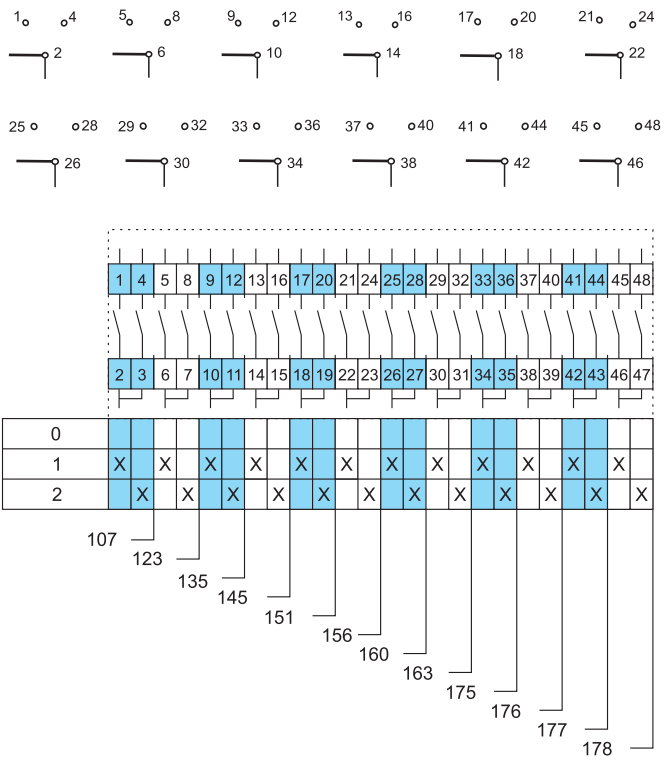
1 pole <i>1 polna</i> 2 pole <i>2 polna</i>	10 positions <i>10 položaja</i> 	<b>104</b> 5 <b>120</b> 10	
1 pole <i>1 polna</i> 2 pole <i>2 polna</i>	11 positions <i>11 položaja</i> 	<b>105</b> 6 <b>121</b> 11	

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITHOUT "0"**  
*STEPENASTE SKLOPKE BEZ "0" POLOŽAJA*

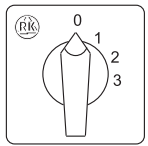
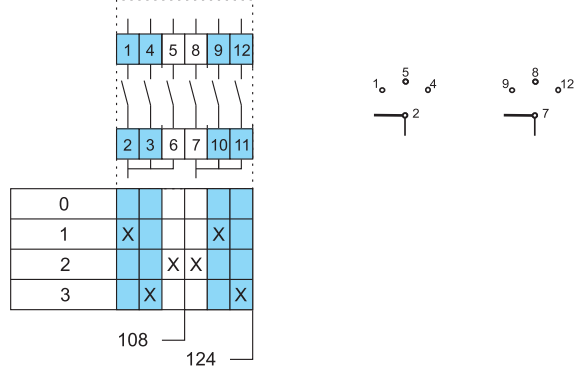
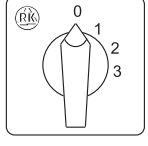
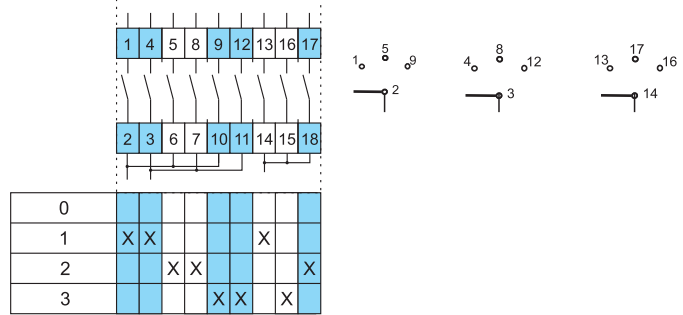
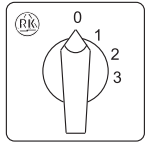
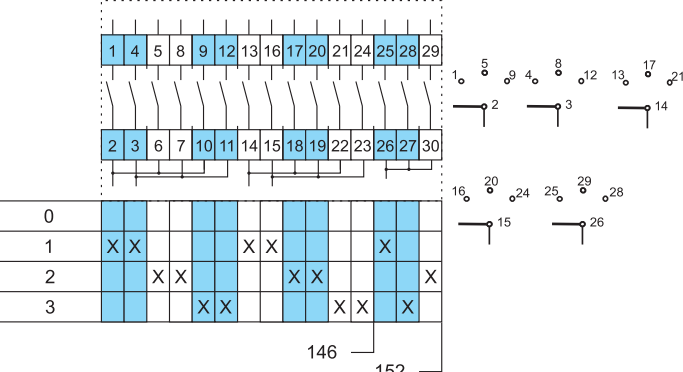
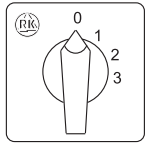
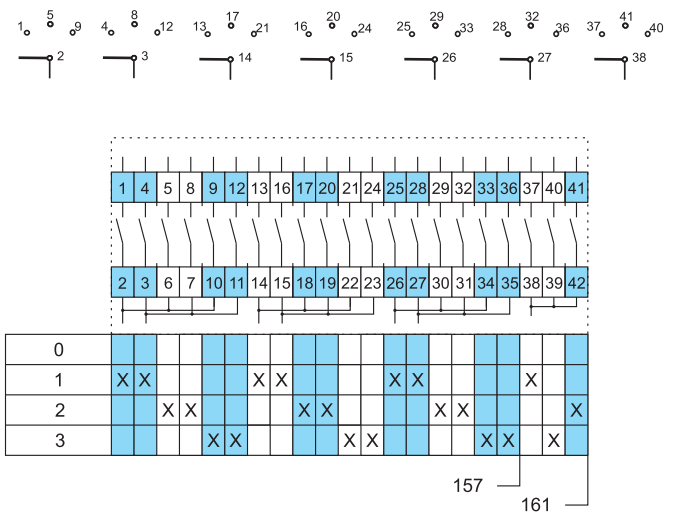
<p>1 pole <i>1 polna</i> 2 pole <i>2 polna</i></p>	<p>12 positions <i>12 položaja</i></p>		<p><b>106</b>    6 <b>122</b>    12</p>	
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**MULTI-STEP SWITCHES WITH "0"**  
*STEPENASTE SKLOPKE S "0" POLOŽAJEM*

<p>1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 4 pole <i>4 polna</i> 5 pole <i>5 polna</i> 6 pole <i>6 polna</i> 7 pole <i>7 polna</i> 8 pole <i>8 polna</i> 9 pole <i>9 polna</i> 10 pole <i>10 polna</i> 11 pole <i>11 polna</i> 12 pole <i>12 polna</i></p>	<p>2 positions <i>2 položaja</i></p>		<p><b>107</b>    1 <b>123</b>    2 <b>135</b>    3 <b>145</b>    4 <b>151</b>    5 <b>156</b>    6 <b>160</b>    7 <b>163</b>    8 <b>175</b>    9 <b>176</b>    10 <b>177</b>    11 <b>178</b>    12</p>	
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<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITH "0"**  
**STEPENASTE SKLOPKE S "0" POLOŽAJEM**

1 pole <i>1 polna</i> 2 pole <i>2 polna</i>	3 positions <i>3 položaja</i>	<b>108</b> <b>124</b>	2 3  
3 pole <i>3 polna</i>	3 positions <i>3 položaja</i>	<b>136</b>	5  
4 pole <i>4 polna</i> 5 pole <i>5 polna</i>	3 positions <i>3 položaja</i>	<b>146</b> <b>152</b>	6 8  
6 pole <i>6 polna</i> 7 pole <i>7 polna</i>	3 positions <i>3 položaja</i>	<b>157</b> <b>161</b>	9 11  



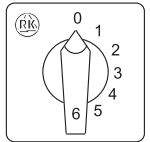
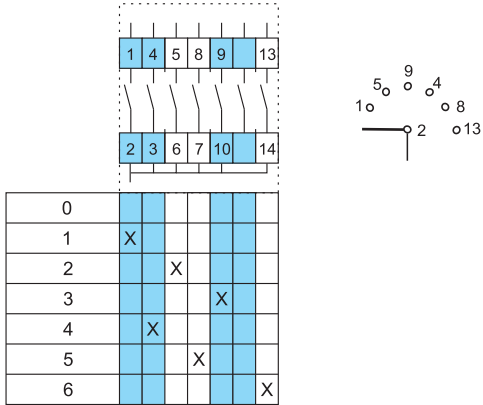
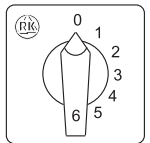
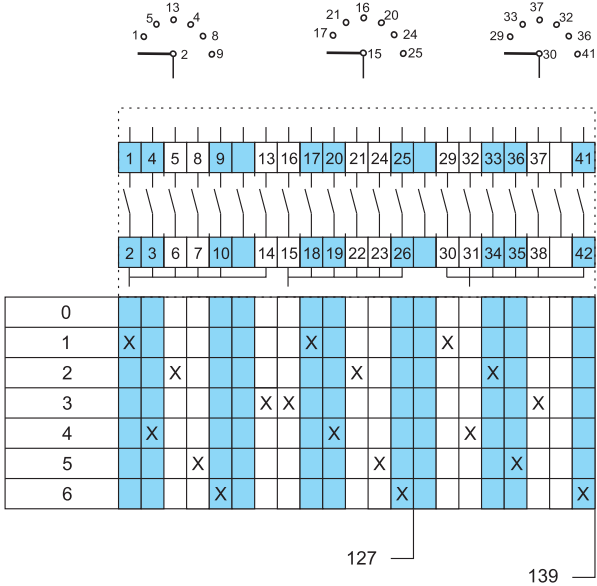
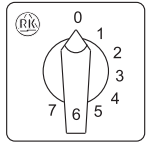
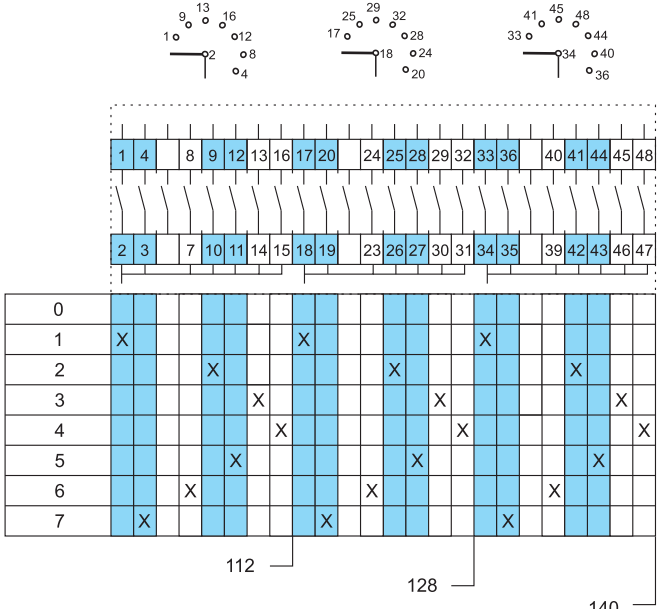
FUNCTION FUNKCIJA	Escutcheon plate Podloga	CODE	No. of elem. Br. elem.	Connection diagram / Šema spoja
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**MULTI-STEP SWITCHES WITH "0"**  
**STEPENASTE SKLOPKE S "0" POLOŽAJEM**

<p>8 pole <i>8 polna</i></p> <p>3 positions <i>3 položaja</i></p>		<p><b>164</b></p> <p>12</p>	 <table border="1"> <tr> <td>1</td><td>4</td><td>5</td><td>8</td><td>9</td><td>12</td><td>13</td><td>16</td><td>17</td><td>20</td><td>21</td><td>24</td><td>25</td><td>28</td><td>29</td><td>32</td><td>33</td><td>36</td><td>37</td><td>40</td><td>41</td><td>44</td><td>45</td><td>48</td> </tr> <tr> <td>2</td><td>3</td><td>6</td><td>7</td><td>10</td><td>11</td><td>14</td><td>15</td><td>18</td><td>19</td><td>22</td><td>23</td><td>26</td><td>27</td><td>30</td><td>31</td><td>34</td><td>35</td><td>38</td><td>39</td><td>42</td><td>43</td><td>46</td><td>47</td> </tr> </table> <table border="1"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td></tr> </table>	1	4	5	8	9	12	13	16	17	20	21	24	25	28	29	32	33	36	37	40	41	44	45	48	2	3	6	7	10	11	14	15	18	19	22	23	26	27	30	31	34	35	38	39	42	43	46	47	0																									1	X	X					X	X				X	X					X	X						2			X	X					X	X				X	X					X	X				3					X	X				X	X				X	X					X	X																																						
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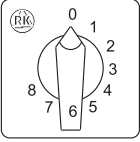
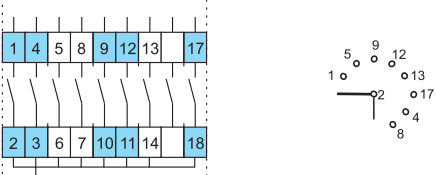
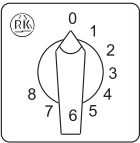
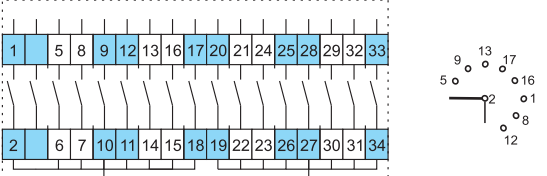
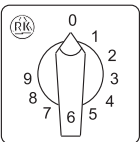
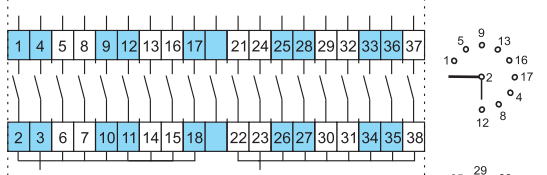
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITH "0"**  
**STEPENASTE SKLOPKE S "0" POLOŽAJEM**

1 pole <i>1 polna</i> 6 positions <i>6 položaja</i>		<b>111</b> 4	
2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 6 positions <i>6 položaja</i>		<b>127</b> 7 <b>139</b> 11	
1 pole <i>1 polna</i> 2 pole <i>2 polna</i> 3 pole <i>3 polna</i> 7 positions <i>7 položaja</i>		<b>112</b> 4 <b>128</b> 8 <b>140</b> 12	

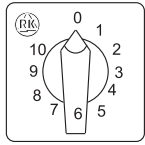
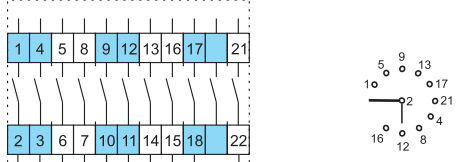
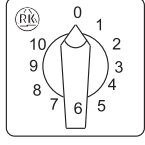
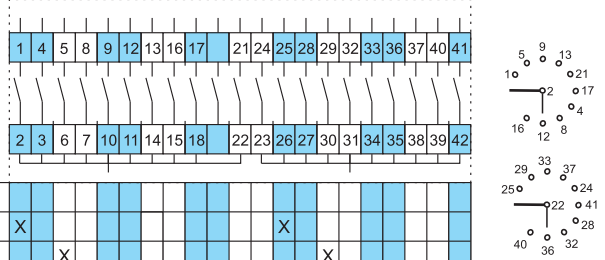
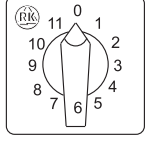
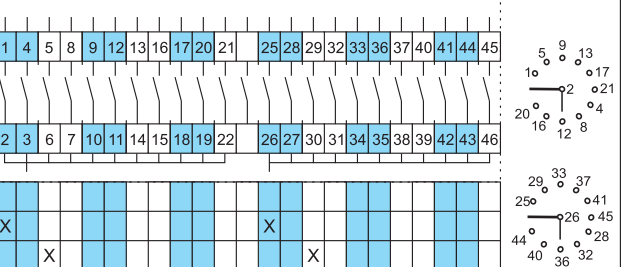
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITH “0”**  
*STEPENASTE SKLOPKE S “0” POLOŽAJEM*

<p>1 pole <i>1 polna</i></p> <p>8 positions <i>8 položaja</i></p> 	<p><b>113</b></p>	<p>5</p>	 <table border="1" data-bbox="762 577 1074 853"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr><td>7</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	0																		1	X																	2			X															3				X														4					X													5						X												6															X			7		X																8				X																																																																																																																																																																																																																																																																															
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<p>2 pole <i>2 polna</i></p> <p>8 positions <i>8 položaja</i></p> 	<p><b>129</b></p>	<p>9</p>	 <table border="1" data-bbox="762 1137 1259 1413"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr><td>6</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td></tr> </table>	0																																						1			X													X																							2						X															X																		3										X																						X							4												X	X																								X		5											X																									X			6	X																																				X		7						X											X																						8								X																										X																																																																										
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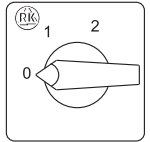
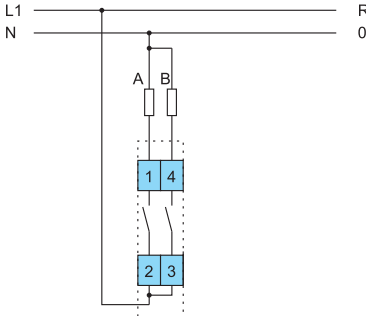
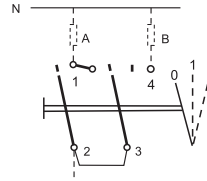
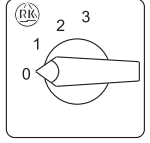
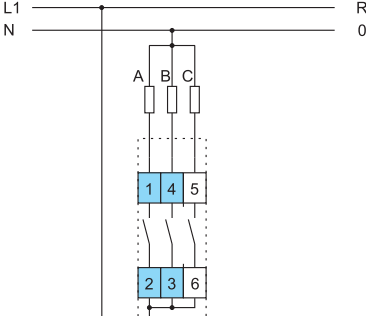
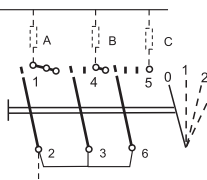
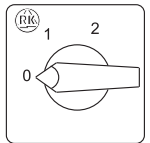
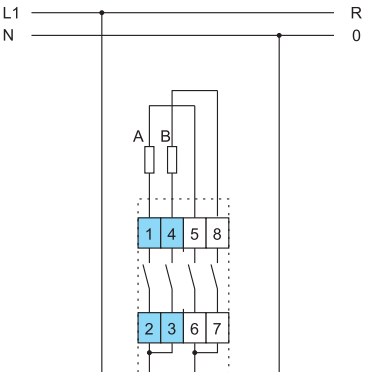
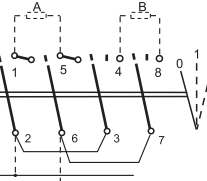
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MULTI-STEP SWITCHES WITH "0"**  
*STEPENASTE SKLOPKE S "0" POLOŽAJEM*

<p>1 pole <i>1 polna</i></p> <p>10 positions <i>10 položaja</i></p> 	<p><b>115</b></p> <p>6</p>	 <table border="1" data-bbox="774 555 1117 884"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	0																					1	X																				2		X																			3				X																	4					X																5									X												6													X								7		X																			8				X																	9					X																10							X																																		
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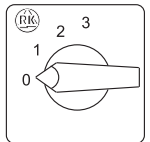
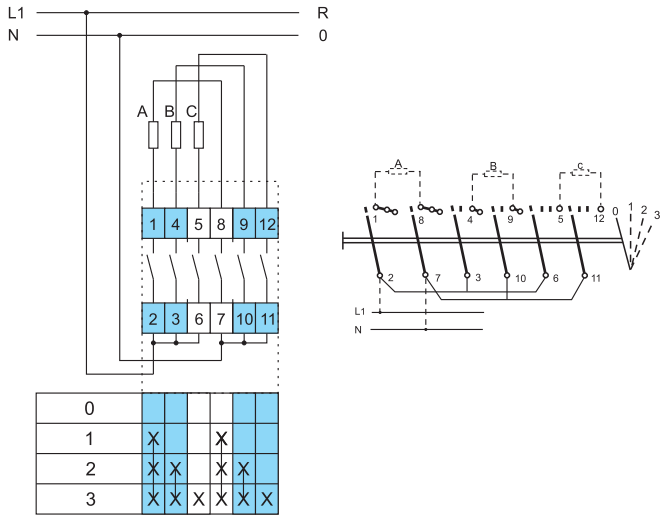
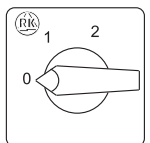
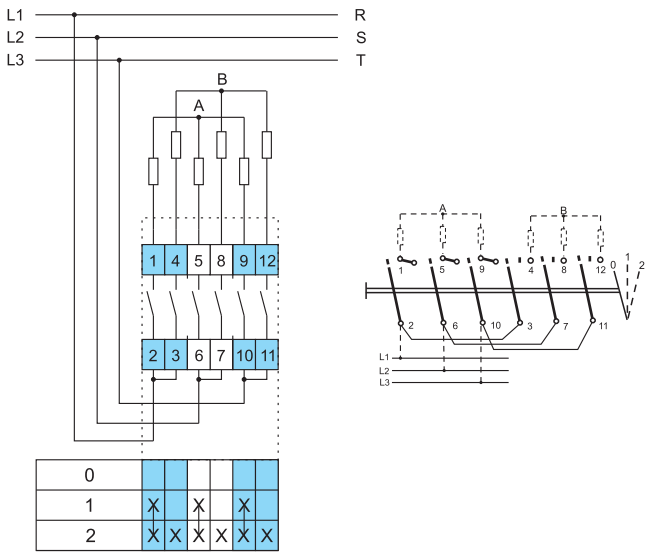
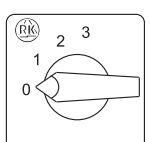
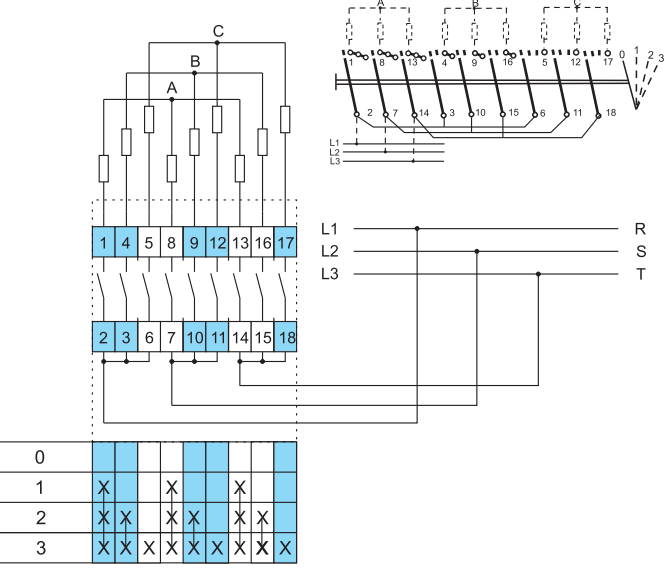
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**GANG SWITCHES**  
*GRUPNE SKLOPKE*

<p>1 pole <i>1 polna</i></p> <p>2 GANG          Switching sequence:          0, A, A+B</p> <p><i>2 GRUPE</i>  <i>Sklopni slijed:</i>          0, A, A+B</p>		<p><b>251</b></p>	<p>1</p>	  <table border="1" data-bbox="805 705 965 795"> <tr><td>0</td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td></tr> </table>	0			1	X		2	X	X							
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<p>1 pole <i>1 polna</i></p> <p>3 GANG          Switching sequence:          0, A, A+B, A+B+c</p> <p><i>3 GRUPE</i>  <i>Sklopni slijed:</i>          0, A, A+B, A+B+C</p>		<p><b>254</b></p>	<p>2</p>	  <table border="1" data-bbox="805 1254 965 1377"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td></tr> </table>	0				1	X			2	X	X		3	X	X	X
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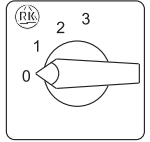
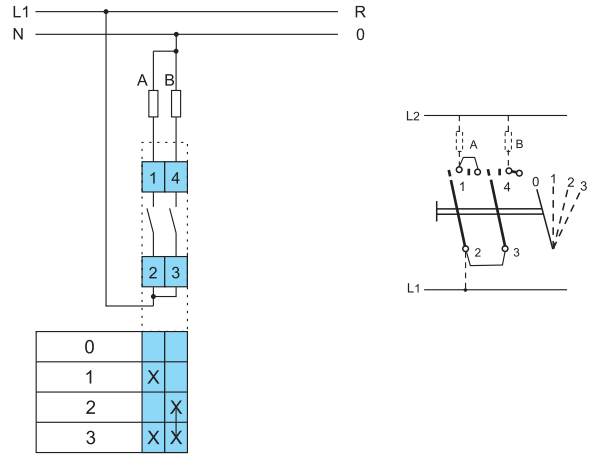
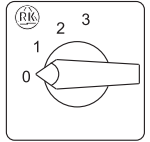
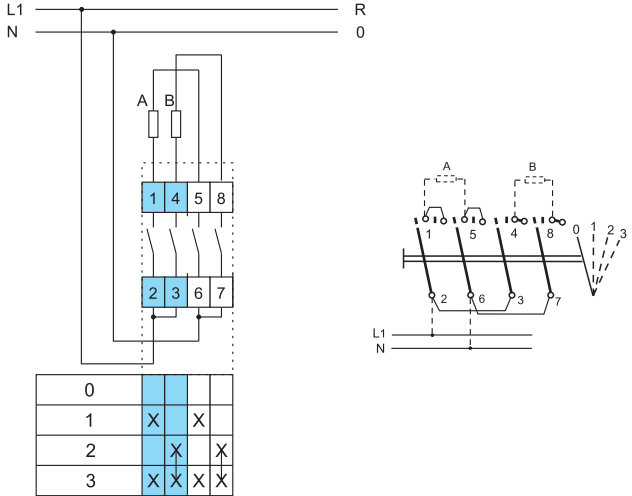
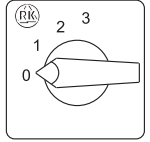
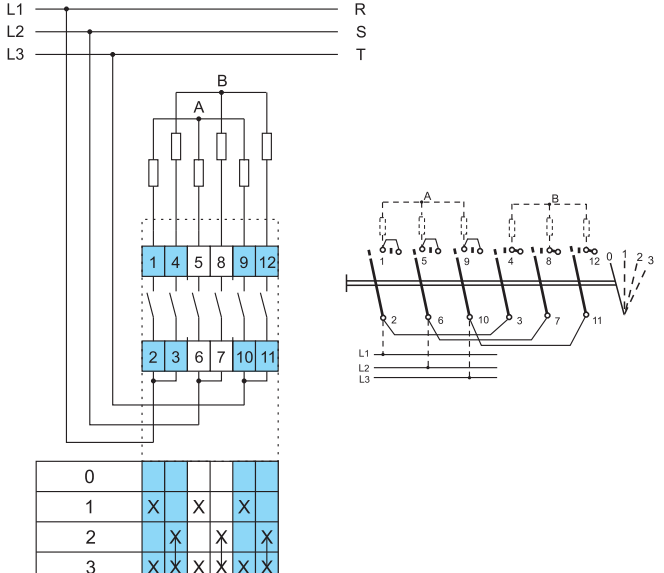
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**GANG SWITCHES**  
*GRUPNE SKLOPKE*

<p>2 pole <i>2 polna</i></p> <p>3 GANG          Switching sequence:          0, A, A+B, A+B+C</p> <p><i>3 GRUPE</i>  <i>Sklopni slijed:</i>  <i>0, A, A+B, A+B+C</i></p>		<p><b>255</b></p>	<p>3</p>  <table border="1" data-bbox="810 757 1054 884"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td></tr> </table>	0												1	X				X				X			2	X	X			X	X			X	X		3	X	X	X		X	X	X		X	X	X																								
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<p>3 pole <i>3 polna</i></p> <p>2 GANG          Switching sequence:          0, A, A+B</p> <p><i>2 GRUPE</i>  <i>Sklopni slijed:</i>  <i>0, A, A+B</i></p>		<p><b>253</b></p>	<p>3</p>  <table border="1" data-bbox="810 1368 1054 1467"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> </table>	0												1	X				X				X			2	X	X			X	X			X	X																																					
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<p>3 pole <i>3 polna</i></p> <p>3 GANG          Switching sequence:          0, A, A+B, A+B+C</p> <p><i>3 GRUPE</i>  <i>Sklopni slijed:</i>  <i>0, A, A+B, A+B+C</i></p>		<p><b>256</b></p>	<p>5</p>  <table border="1" data-bbox="762 1928 1070 2072"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td></tr> </table>	0																		1	X					X				X				X				2	X	X				X	X			X	X			X	X			3	X	X	X			X	X	X		X	X	X		X	X	X	
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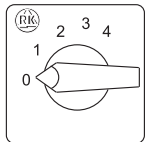
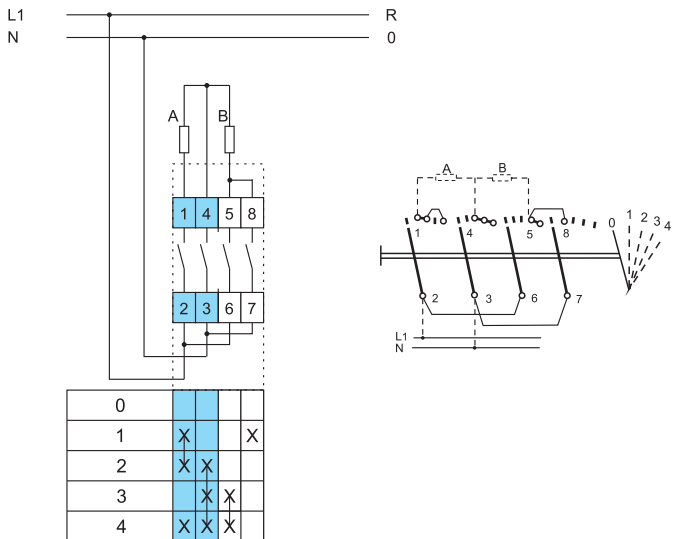
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	Connection diagram / <i>Šema spoja</i>
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**GANG SWITCHES**  
*GRUPNE SKLOPKE*

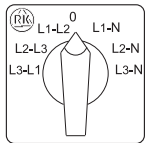
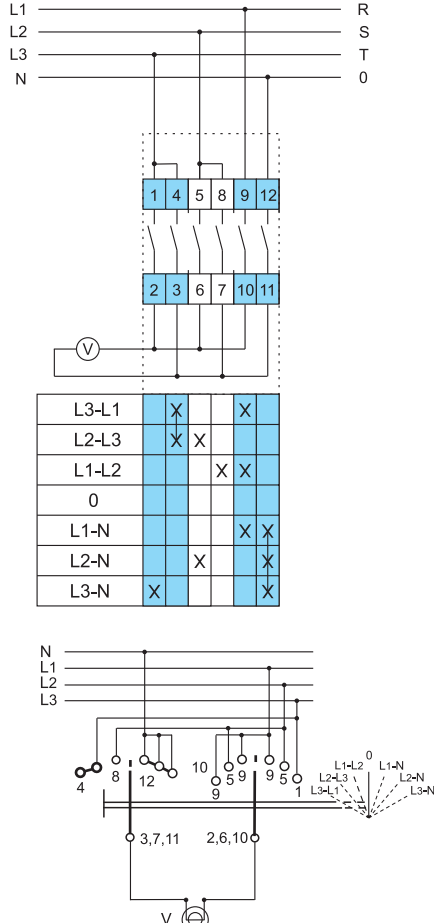
<p>1 pole <i>1 polna</i></p> <p>2 GANG          Switching sequence:          0, A, B, A+B</p> <p><i>2 GRUPE</i>  <i>Sklopni sljedi:</i>          0, A, B, A+B</p>		<p><b>257</b></p>	<p>1</p>  <table border="1" data-bbox="810 728 965 851"> <tr><td>0</td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td></tr> </table>	0			1	X		2		X	3	X	X								
0																							
1	X																						
2		X																					
3	X	X																					
<p>2 pole <i>2 polna</i></p> <p>2 GANG          Switching sequence:          0, A, B, A+B</p> <p><i>2 GRUPE</i>  <i>Sklopni sljedi:</i>          0, A, B, A+B</p>		<p><b>258</b></p>	<p>2</p>  <table border="1" data-bbox="810 1299 1013 1422"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td>X</td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td></tr> </table>	0				1	X		X	2		X	X	3	X	X	X				
0																							
1	X		X																				
2		X	X																				
3	X	X	X																				
<p>3 pole <i>3 polna</i></p> <p>2 GANG          Switching sequence:          0, A, B, A+B</p> <p><i>2 GRUPE</i>  <i>Sklopni sljedi:</i>          0, A, B, A+B</p>		<p><b>259</b></p>	<p>3</p>  <table border="1" data-bbox="810 1937 1061 2049"> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>2</td><td></td><td>X</td><td>X</td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	0					1	X		X	X	2		X	X	X	3	X	X	X	X
0																							
1	X		X	X																			
2		X	X	X																			
3	X	X	X	X																			

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**GANG SWITCHES**  
*GRUPNE SKLOPKE*

<p>2 pole <i>2 polna</i></p> <p>2 GANG          Switching sequence:          0, A+B, series, A, B          A+B parallel</p> <p><i>2 GRUPE</i>  <i>Sklopni slijed:</i>  <i>0, A+B, serijski, A, B</i>  <i>A+B paralelno</i></p>		<p style="text-align: center;"><b>260</b></p> <p style="text-align: right;">2</p>	 <table border="1" data-bbox="810 770 1011 920"> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>3</td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>4</td><td>X</td><td>X</td><td>X</td><td></td></tr> </table>	0					1	X			X	2	X	X			3		X	X		4	X	X	X	
0																												
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2	X	X																										
3		X	X																									
4	X	X	X																									

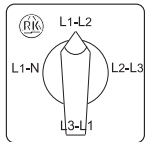
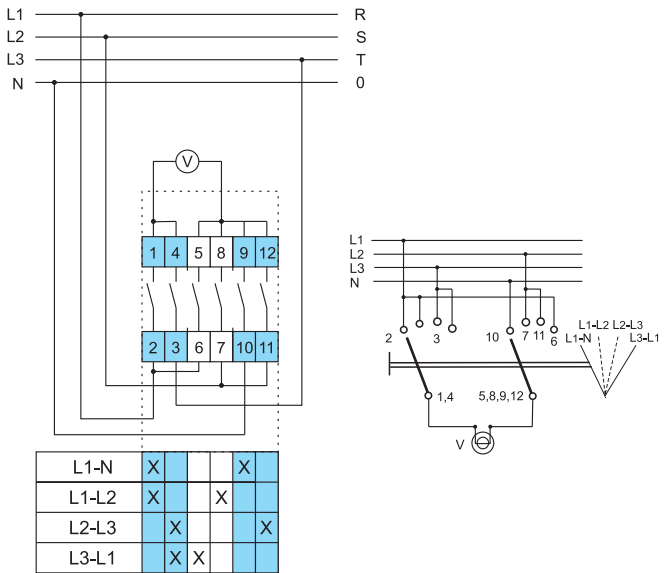
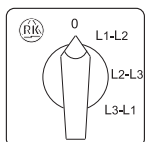
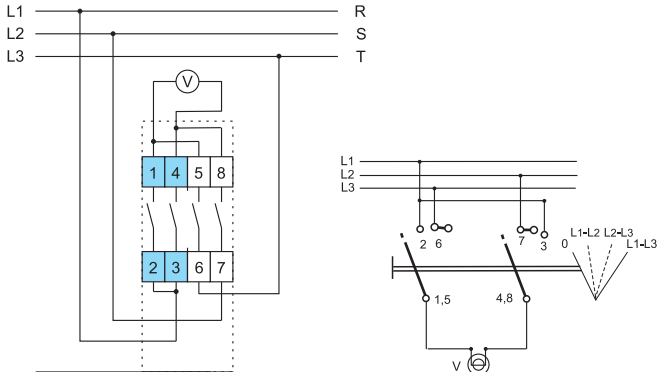
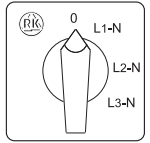
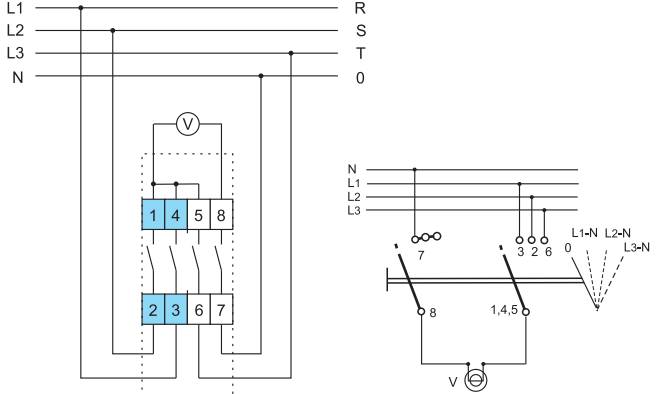
**VOLTMETER SWITCHES**  
*VOLTMETARSKE SKLOPKE*

<p>3 line voltage and          3 phase voltage</p> <p><i>3 linjska napona i</i>  <i>3 fazna napona</i></p>		<p style="text-align: center;"><b>66</b></p> <p style="text-align: right;">3</p>	 <table border="1" data-bbox="938 1516 1187 1733"> <tr><td>L3-L1</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>L2-L3</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>L1-L2</td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-N</td><td></td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>L2-N</td><td></td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>L3-N</td><td>X</td><td></td><td></td><td></td><td>X</td></tr> </table>	L3-L1	X			X	L2-L3	X	X			L1-L2			X	X	0					L1-N				X	X	L2-N		X			X	L3-N	X				X
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L2-L3	X	X																																							
L1-L2			X	X																																					
0																																									
L1-N				X	X																																				
L2-N		X			X																																				
L3-N	X				X																																				



<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	Connection diagram / <i>Šema spoja</i>
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**VOLTMETER SWITCHES**  
*VOLTMETARSKE SKLOPKE*

<p>3 line voltage and 1 phase voltage</p> <p><i>3 linijska napona i 1 fazni napon</i></p>		<p><b>60</b></p> <p>3</p>	 <table border="1" data-bbox="810 817 1061 940"> <tr><td>L1-N</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>L1-L2</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>L2-L3</td><td>X</td><td></td><td></td><td></td><td>X</td></tr> <tr><td>L3-L1</td><td>X</td><td>X</td><td></td><td></td><td></td></tr> </table>	L1-N	X			X		L1-L2	X			X		L2-L3	X				X	L3-L1	X	X			
L1-N	X			X																							
L1-L2	X			X																							
L2-L3	X				X																						
L3-L1	X	X																									
<p>3 line voltage</p> <p><i>3 linijska napona</i></p>		<p><b>67</b></p> <p>2</p>	 <table border="1" data-bbox="810 1355 1013 1489"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-L2</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>L2-L3</td><td></td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>L3-L1</td><td>X</td><td>X</td><td></td><td></td><td></td></tr> </table>	0						L1-L2	X			X		L2-L3				X	X	L3-L1	X	X			
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L1-L2	X			X																							
L2-L3				X	X																						
L3-L1	X	X																									
<p>3 phase voltage</p> <p><i>3 fazna napona</i></p>		<p><b>68</b></p> <p>2</p>	 <table border="1" data-bbox="810 1926 1013 2060"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-N</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>L2-N</td><td>X</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>L3-N</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> </table>	0						L1-N		X		X		L2-N	X			X		L3-N			X	X	
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L1-N		X		X																							
L2-N	X			X																							
L3-N			X	X																							

FUNCTION  
FUNKCIJA

Escutcheon plate  
Podloga

CODE

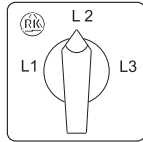
No. of elem.  
Br. elem.

Connection diagram / Šema spoja

AMMETER SWITCHES

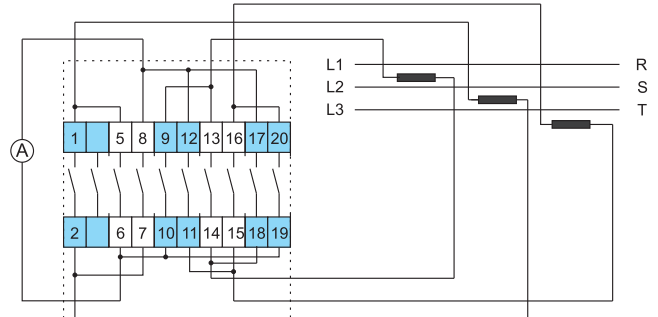
AMPERMETARSKE SKLOPKE

2 pole 3 currents  
(with or without current  
transformers)  
*2 polna 3 struje  
(sa ili bez strujnih  
transformatora)*

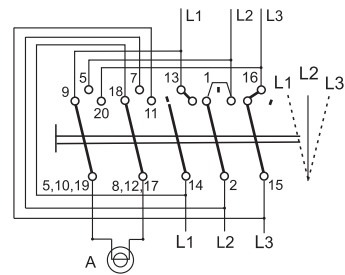


58

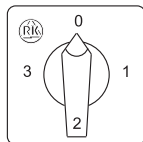
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L1	X			X		X	X	
L2			X	X			X	X
L3	X				X	X		X

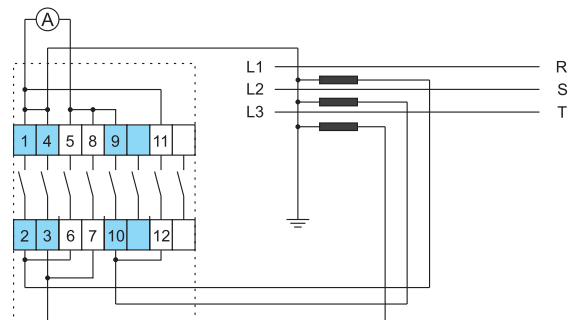


1 pole 3 currents  
(with current  
transformer)  
*1 polna 3 struje  
(sa strujnim  
transformatorom)*

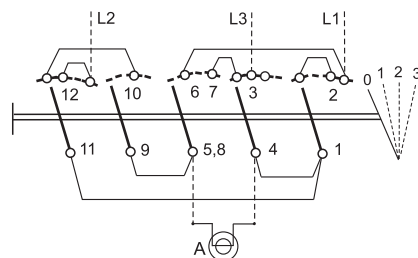


98

4



0	X	X				X
1		X	X			X
2	X	X		X		
3	X			X		X

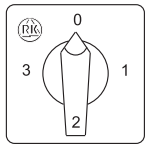


<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> <small>No. of elem. Br. elem.</small>	Connection diagram / <i>Šema spoja</i>
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**AMMETER SWITCHES**  
*AMPERMETARSKE SKLOPKE*

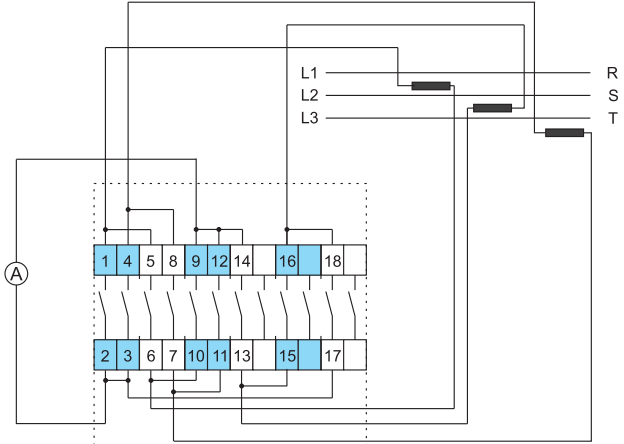
2 pole 0-position  
3 currents (with or without current transformers)

*2 polna 0-položaj  
3 struje (sa ili bez strujnih transformatora)*

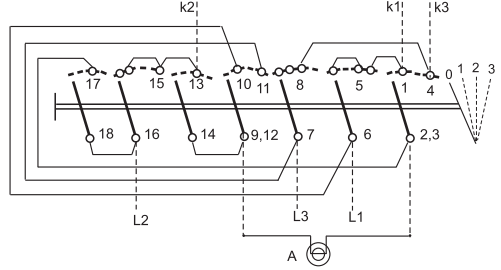


**97**

6



0			X	X					X								
1	X			X	X				X								
2			X	X		X									X		
3		X	X			X			X								

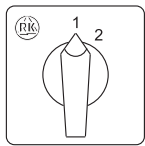


**CONTROL SWITCHES (with spring return)**  
*UPRAVLJAČKE SKLOPKE (s povratom)*

1 make and 1 break  
*1 uklop i 1 isklop*

2 makes and 2 breaks  
*2 uklopa i 2 isklopa*

3 makes and 3 breaks  
*3 uklopa i 3 isklopa*



**204**

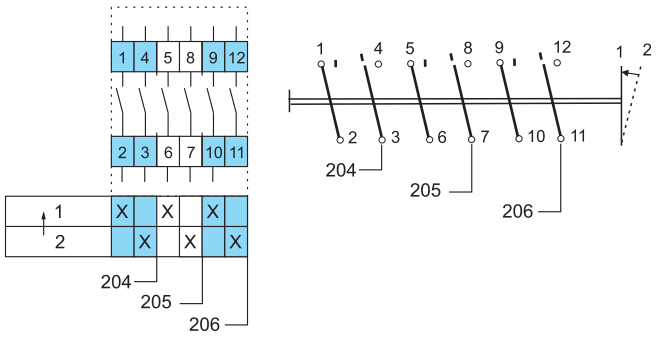
**205**

**206**

1

2

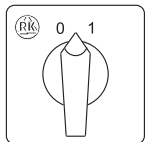
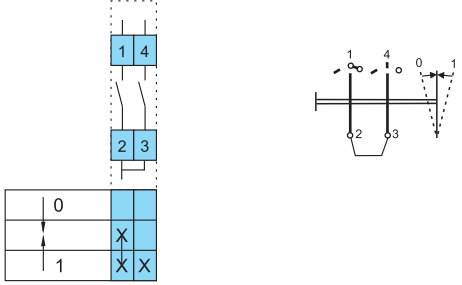
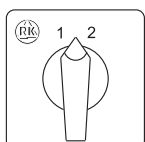
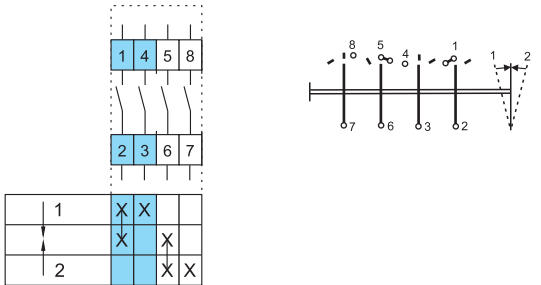

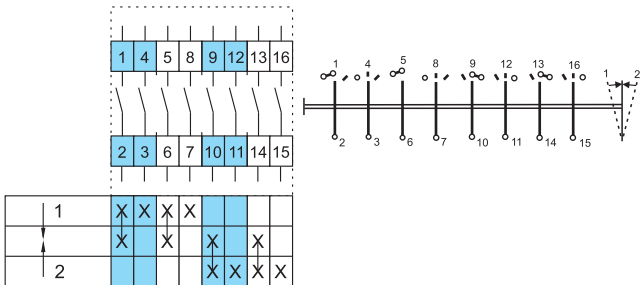
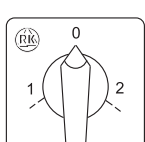
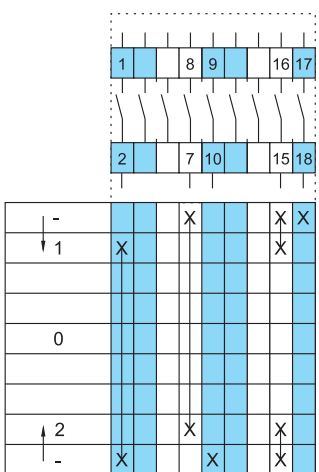
3



1	X	X	X	
2	X	X	X	X

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> <small>No. of elem. Br. elem.</small>	Connection diagram / <i>Šema spoja</i>
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**CONTROL SWITCHES (with spring return)**  
*UPRAVLJAČKE SKLOPKE (s povratom)*

1 make right and 1 break left <i>1 uklop desno i 1 isklop lijevo</i>		<b>207</b> 1	
1 make, 1 break right 1 make, 1 break left <i>1 uklop, 1 isklop desno 1 uklop, 1 isklop lijevo</i>		<b>208</b> 2	
2 makes, 2 breaks right 2 makes, 2 breaks left <i>2 uklopa, 2 isklopa desno 2 uklopa, 2 isklopa lijevo</i>		<b>209</b> 4	
Switch with spring return left and right <i>Sklopka sa zakretnim tipkalom lijevo i desno</i>		<b>210</b> 5	

FUNCTION  
FUNKCIJA

Escutcheon plate  
Podloga

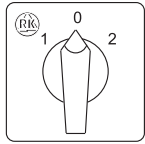
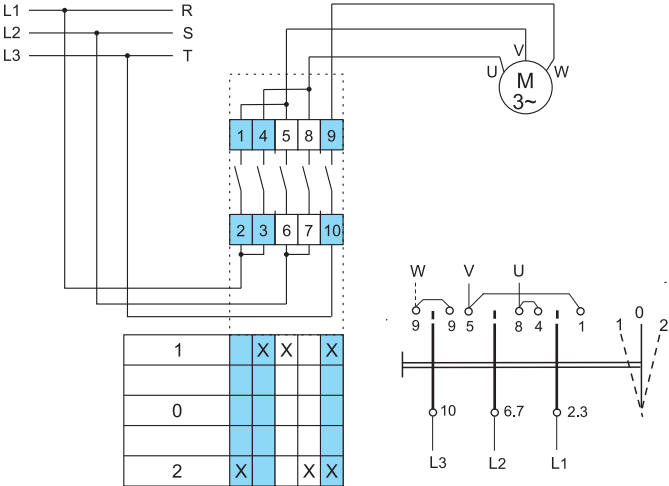
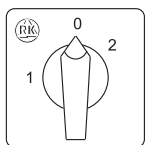
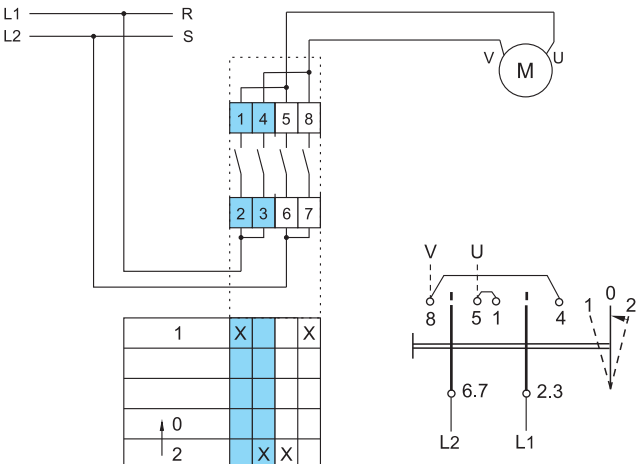
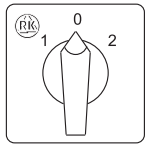
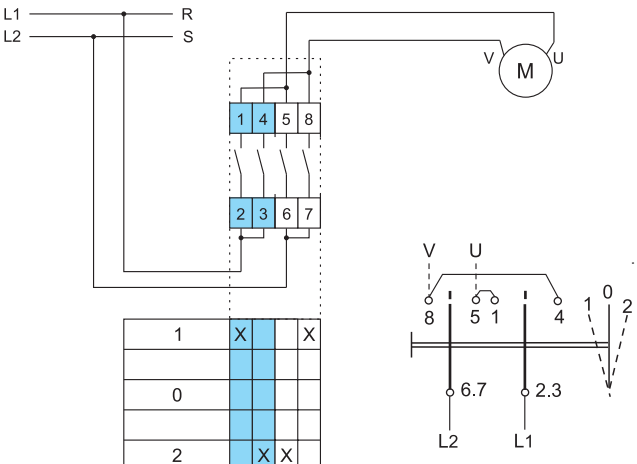
CODE

No. of elem.  
Br. elem.

Connection diagram / Šema spoja

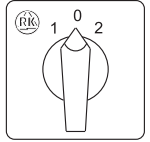
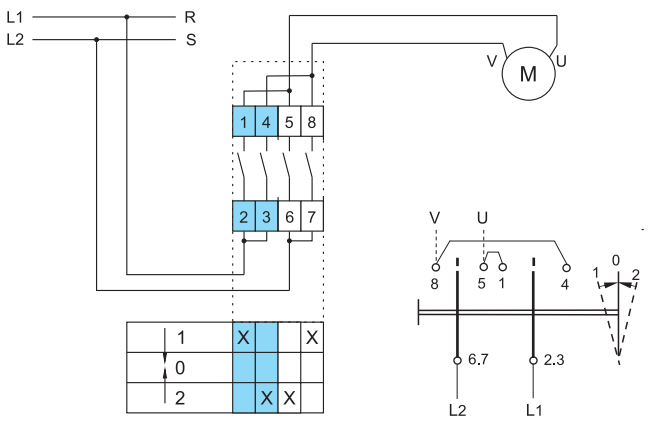
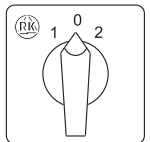
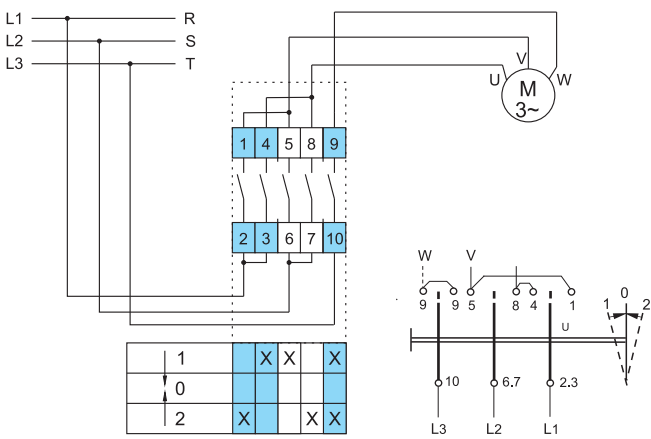
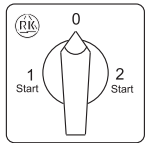
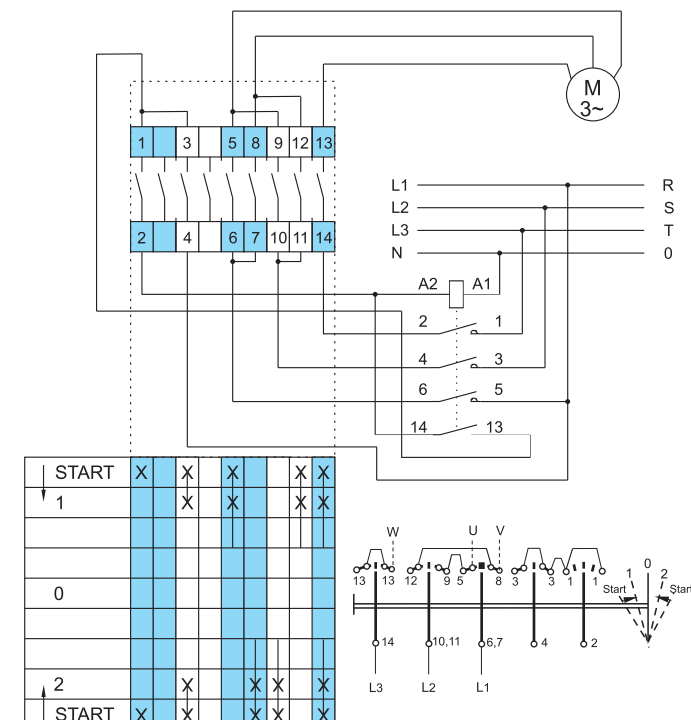
MOTOR REVERSING SWITCHES

MOTORSKE REVERZIBILNE SKLOPKE

<p>3 pole 3 polna</p>		<p><b>11</b>      3</p>	 <table border="1" data-bbox="880 734 1104 891"> <tr> <td>1</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td></td> <td>X X</td> </tr> </table>	1	X	X	X	0				2	X		X X
1	X	X	X												
0															
2	X		X X												
<p>2 pole return from 2 to "0" 2 polna povrat iz 2 u "0"</p>		<p><b>14</b>      2</p>	 <table border="1" data-bbox="880 1303 1082 1460"> <tr> <td>1</td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>X X</td> <td></td> </tr> </table>	1	X		X	0				2		X X	
1	X		X												
0															
2		X X													
<p>2 pole 2 polna</p>		<p><b>24</b>      2</p>	 <table border="1" data-bbox="880 1888 1082 2045"> <tr> <td>1</td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>X X</td> <td></td> </tr> </table>	1	X		X	0				2		X X	
1	X		X												
0															
2		X X													

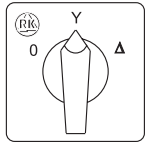
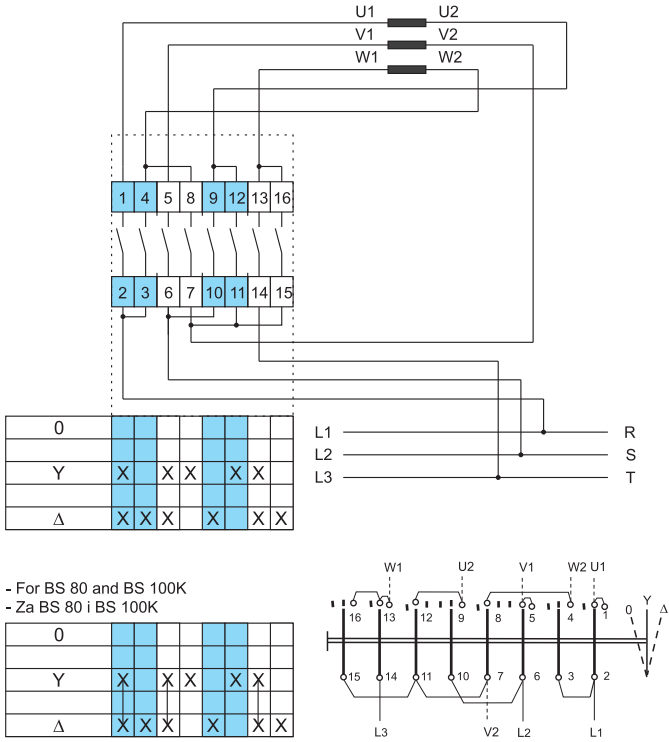
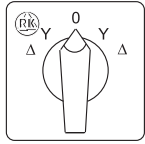
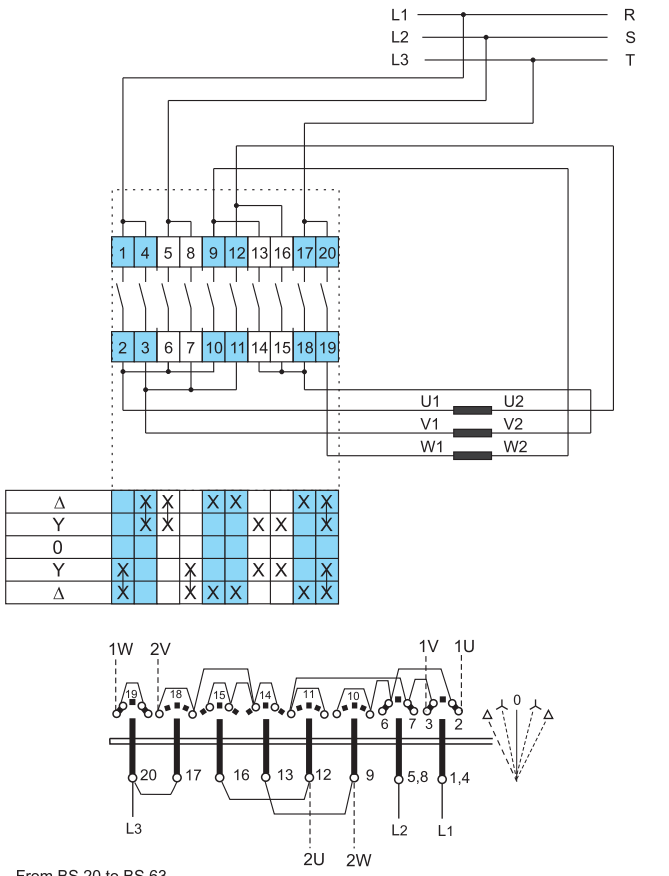
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MOTOR REVERSING SWITCHES**  
*MOTORSKE REVERZIBILNE SKLOPKE*

2 pole return tu "0" <i>2 polna          povrat u "0"</i>		<b>25</b> 2	 <table border="1" data-bbox="877 683 1085 784"> <tr> <td>1</td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> </tr> </table>	1	X		X	0				2	X	X																			
1	X		X																														
0																																	
2	X	X																															
3 pole return to "0" <i>3 polna          povrat u "0"</i>		<b>26</b> 3	 <table border="1" data-bbox="877 1164 1101 1265"> <tr> <td>1</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td></td> <td>X</td> </tr> </table>	1	X	X	X	0				2	X		X																		
1	X	X	X																														
0																																	
2	X		X																														
3 pole with contactor <i>3 polna          sa sklopnikom</i>		<b>27</b> 5	 <table border="1" data-bbox="774 1780 1093 2049"> <tr> <td>START</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>START</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>	START	X	X	X	X	X	1	X	X	X	X	X	0						2	X	X	X	X	X	START	X	X	X	X	X
START	X	X	X	X	X																												
1	X	X	X	X	X																												
0																																	
2	X	X	X	X	X																												
START	X	X	X	X	X																												

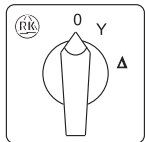

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	Connection diagram / <i>Šema spoja</i>
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**STAR - DELTA SWITCHES**  
*ZVIJEZDA - TROKUT SKLOPKE*

<p>Standard version  <i>Standardna verzija</i></p> 	<p style="text-align: center;"><b>12</b></p>	<p style="text-align: center;">4</p>	 <p style="text-align: center;">- For BS 80 and BS 100K          - Za BS 80 i BS 100K</p>
<p>Reversing  <i>2 smjera okretanja</i></p> 	<p style="text-align: center;"><b>21</b></p>	<p style="text-align: center;">5</p>	 <p style="text-align: center;">- From BS 20 to BS 63          - Od BS 20 do BS 63</p>

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**STAR - DELTA SWITCHES**  
**ZVIJEZDA - TROKUT SKLOPKE**

<p>Return from Y to "0"  <i>Povrat iz Y u "0"</i></p> 	<p><b>28</b></p>	<p>4</p>	 <tr> <td>0</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Y</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Δ</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr>	0			X	X			Y	X	X	X	X	X	X	Δ	X	X	X	X	X	X
0			X	X																				
Y	X	X	X	X	X	X																		
Δ	X	X	X	X	X	X																		

 The diagram also includes a schematic of the switch mechanism with terminals labeled 1-16 and phases L1, L2, L3, R, S, T.
 

| Counter current braking  *Protustrujno kočenje* | **29** | 5 | | Y | X | X |  |  | X | X | X | | 0 | X |  | X |  | X | X | X | | Δ | X | X | X | X |  | X | X |   The diagram also includes a schematic of the switch mechanism with terminals labeled 1-20 and phases L1, L2, L3, 1U, 1V, 1W, 2U, 2V, 2W, R, S, T. |



FUNCTION  
FUNKCIJA

Escutcheon plate  
Podloga

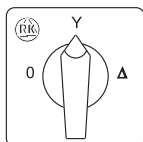
CODE

No. of elem.  
Br. elem.

Connection diagram / Šema spoja

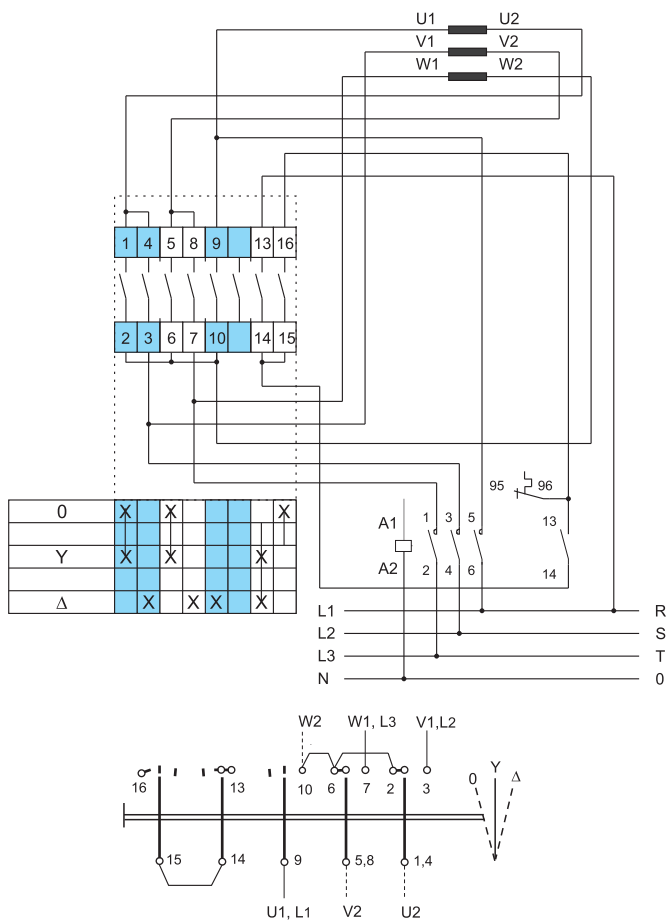
STAR - DELTA SWITCHES  
ZVIJEZDA - TROKUT SKLOPKE

With contactor  
Sa sklopnikom

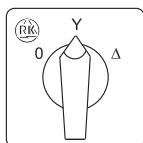


31

4

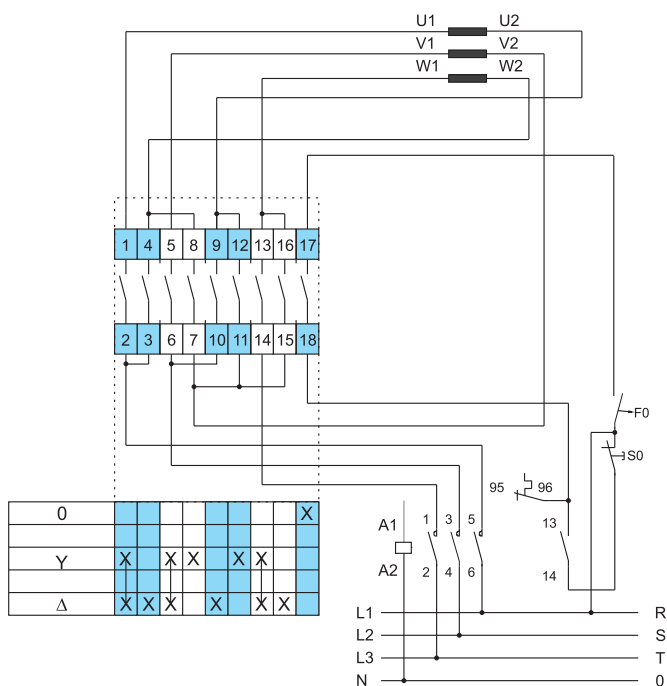


With contact in "0" position  
S kontaktom u "0" položaju



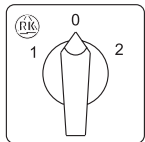
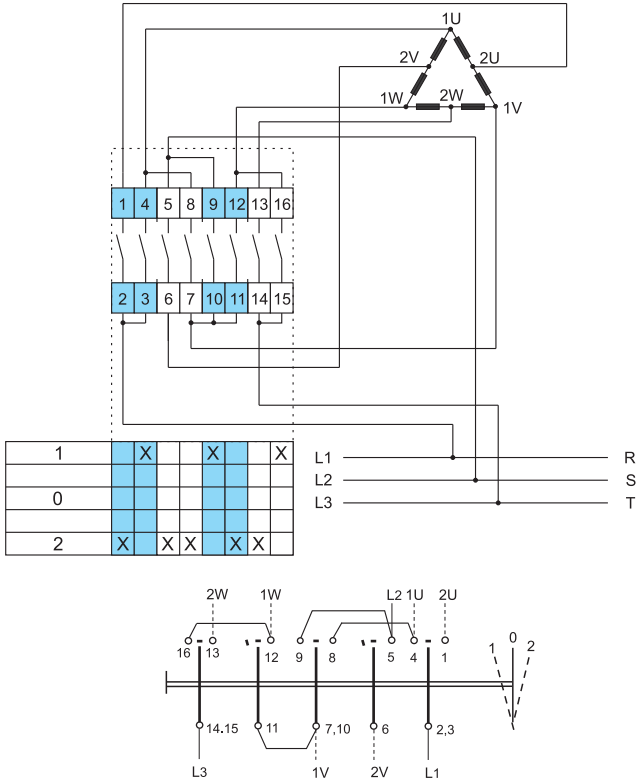
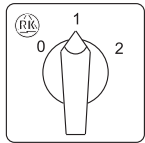
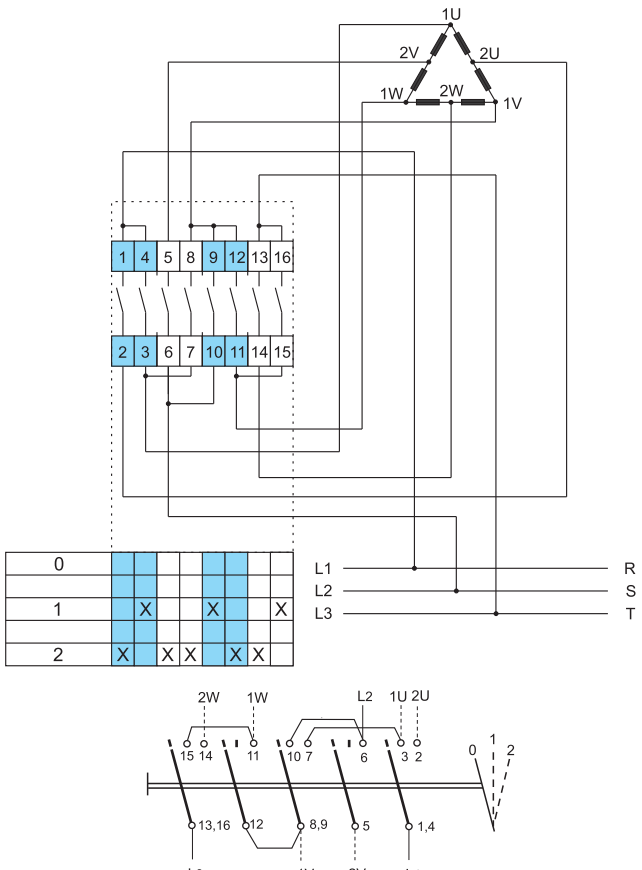
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5



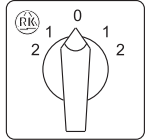
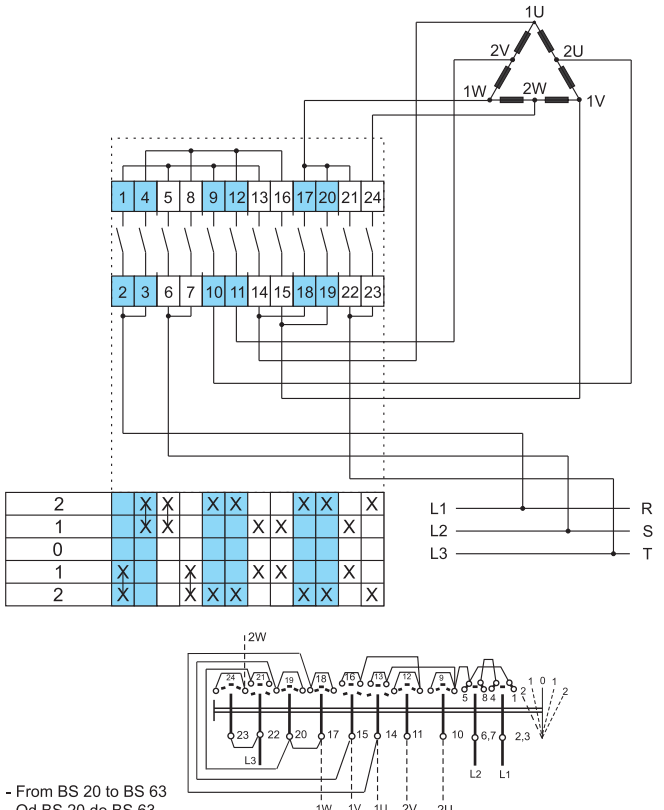
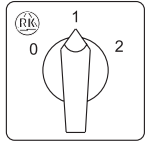
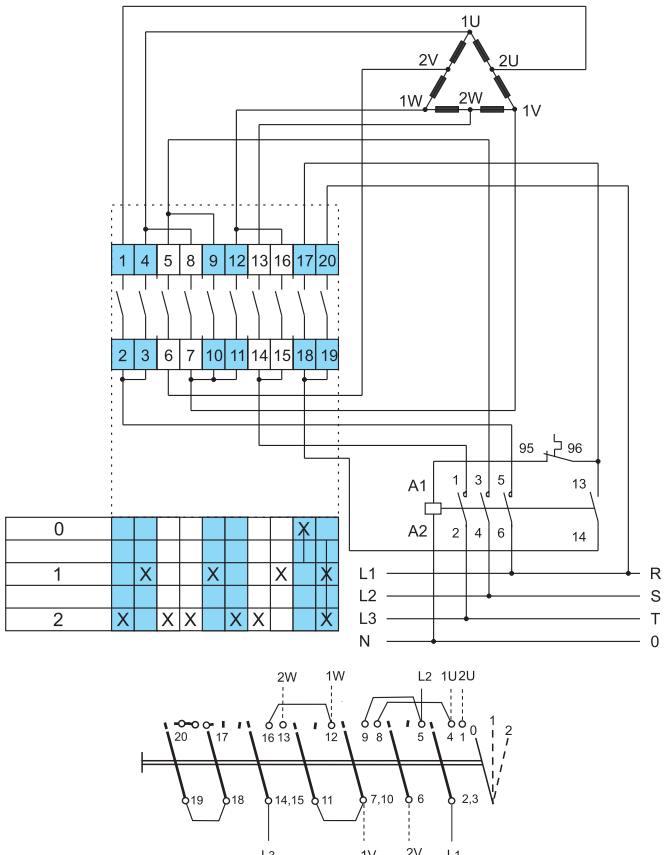
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MOTOR CONTROL SWITCHES (Dahlander)**  
**SKLOPKE ZA UPRAVLJANJE MOTORIMA (Dahlander)**

<p>With center "0"          (<math>\Delta</math>-0-YY)  <i>Položaj "0" u sredini</i>          (<math>\Delta</math>-0-YY)</p>		<p style="text-align: center;"><b>13</b></p> <p style="text-align: right;">4</p>	 <table border="1" data-bbox="778 824 1070 943"> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>0</td><td>X</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	1	X		X		X	0	X		X			2	X	X	X	X	X
1	X		X		X																
0	X		X																		
2	X	X	X	X	X																
<p>Standard version          (0-<math>\Delta</math>-YY)  <i>Standardna izvedba</i>          (0-<math>\Delta</math>-YY)</p>		<p style="text-align: center;"><b>19</b></p> <p style="text-align: right;">4</p>	 <table border="1" data-bbox="778 1742 1070 1861"> <tr><td>0</td><td>X</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	0	X		X			1	X		X		X	2	X	X	X	X	X
0	X		X																		
1	X		X		X																
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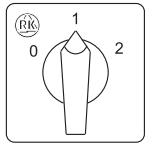
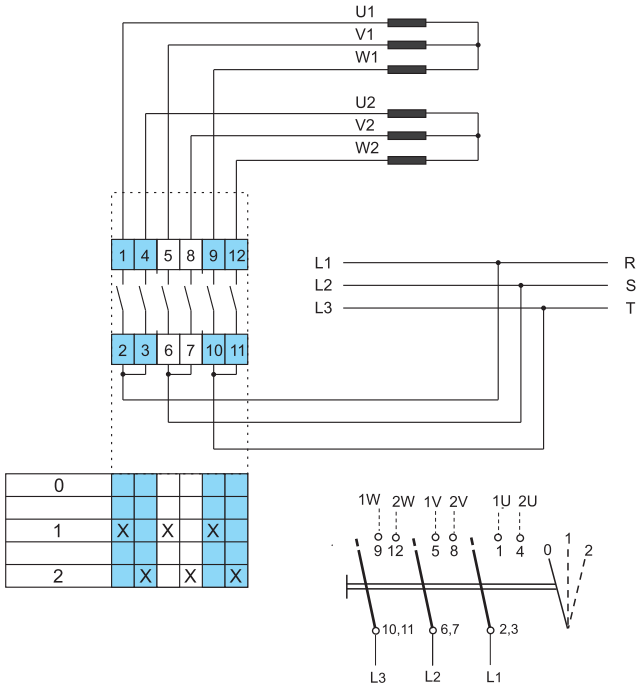
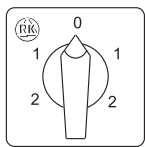
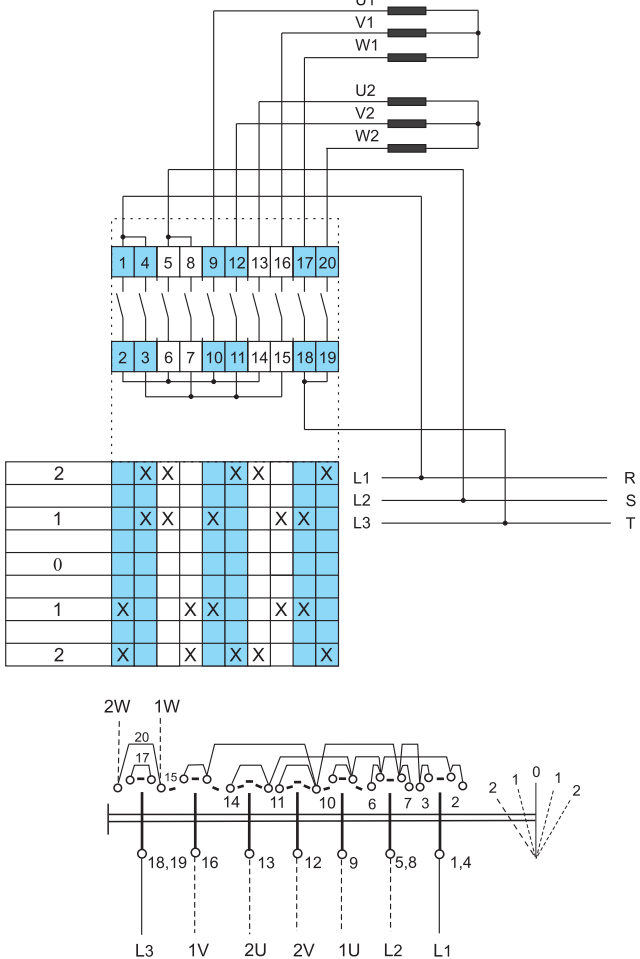
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MOTOR CONTROL SWITCHES (Dahlander)**  
**SKLOPKE ZA UPRAVLJANJE MOTORIMA (Dahlander)**

<p>Reversing          Switching sequence:          (YY - Δ - 0 - Δ - YY)  <i>2 smjera okretanja</i>  <i>Sklopni slijed:</i>          (YY - Δ - 0 - Δ - YY)</p>		<p style="text-align: center;"><b>20</b></p> <p style="text-align: right;">6</p>	 <table border="1" data-bbox="778 862 1161 974"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> <tr><td>0</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> <tr><td>2</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> </table> <p>- From BS 20 to BS 63          - Od BS 20 do BS 63</p>	2	X	X	X	X	X	X	X	X	1	X	X			X	X		X	0	X								1	X		X		X	X		X	2	X		X	X	X		X	X
2	X	X	X	X	X	X	X	X																																								
1	X	X			X	X		X																																								
0	X																																															
1	X		X		X	X		X																																								
2	X		X	X	X		X	X																																								
<p>With contactor          Switching sequence:          (0 - Δ - YY)  <i>Sa sklopnikom</i>  <i>Sklopni slijed:</i>          (0 - Δ - YY)</p>		<p style="text-align: center;"><b>32</b></p> <p style="text-align: right;">5</p>	 <table border="1" data-bbox="778 1736 1161 1848"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td></td></tr> </table>	0							X		1	X		X		X		X		2	X	X	X	X	X		X																			
0							X																																									
1	X		X		X		X																																									
2	X	X	X	X	X		X																																									

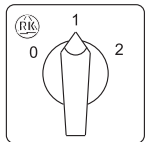
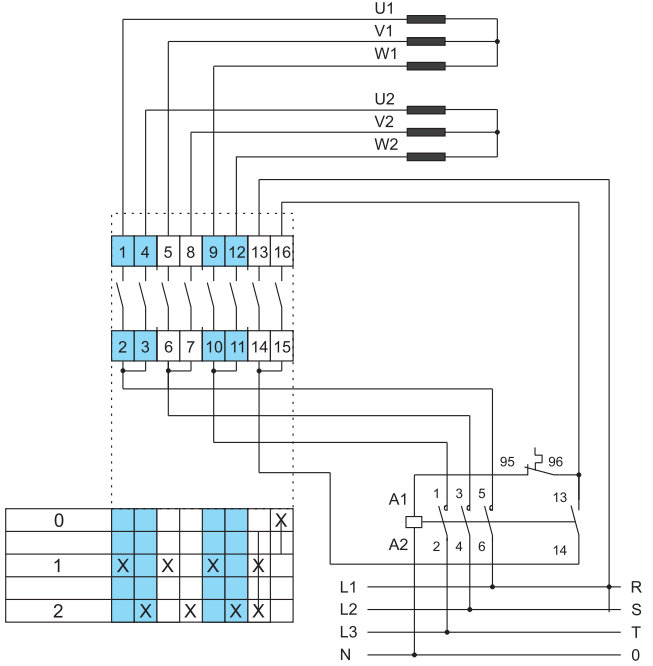
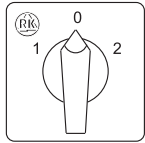
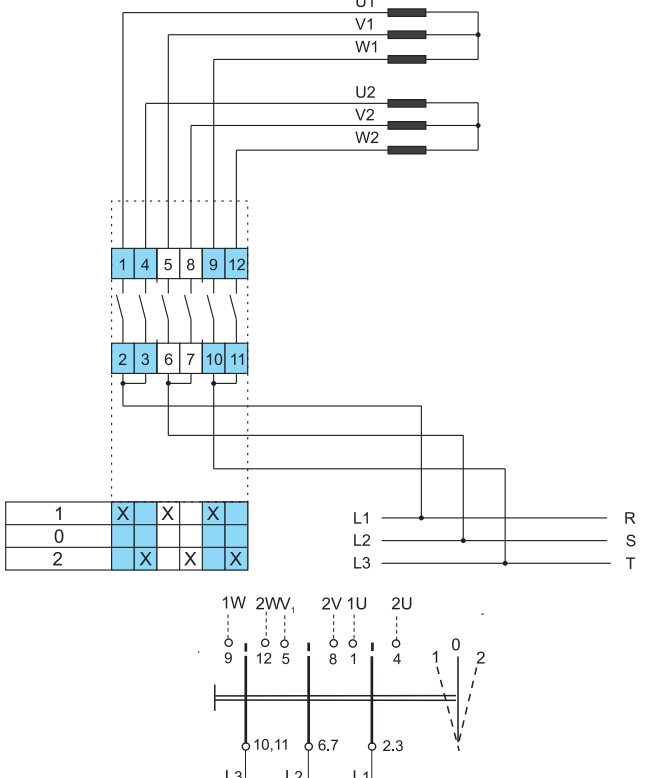
<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> No. of elem. <i>Br. elem.</i>	Connection diagram / <i>Šema spoja</i>
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**MOTOR CONTROL SWITCHES (Separate windings)**  
*SKLOPKE ZA UPRAVLJANJE MOTORIMA (Odvojeni namoti)*

2 speed, 2 winding <i>2 brzine, 2 namota</i>		<b>22</b> 3	 <table border="1" data-bbox="778 846 1029 963"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> </table>	0						1	X		X		X	2		X		X																																																										
0																																																																														
1	X		X		X																																																																									
2		X		X																																																																										
2 speed, reversing, 2 windings <i>2 brzine, 2 smjera,          2 namota</i>		<b>23</b> 5	 <table border="1" data-bbox="778 1563 1117 1769"> <tr><td>2</td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>1</td><td></td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>2</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> </table>	2		X	X			X	X			X	X			X	1		X	X		X			X	X			X	X		0															1	X			X	X			X	X			X	X		2	X			X	X	X	X			X		X		X
2		X	X			X	X			X	X			X																																																																
1		X	X		X			X	X			X	X																																																																	
0																																																																														
1	X			X	X			X	X			X	X																																																																	
2	X			X	X	X	X			X		X		X																																																																

<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b> <small>No. of elem.  <i>Br. elem.</i></small>	Connection diagram / <i>Šema spoja</i>
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**MOTOR CONTROL SWITCHES (Separate windings)**  
*SKLOPKE ZA UPRAVLJANJE MOTORIMA (Odvojeni namoti)*

<p>2 speed, 2 winding with contactor  <i>2 brzine, 2 namota sa sklopnikom</i></p>		<p style="text-align: center;"><b>33</b></p> <p style="text-align: right;">4</p>	 <table border="1" data-bbox="778 882 1070 999"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	0																X	1	X		X		X		X		X								2		X		X		X		X		X						
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2		X		X		X		X		X																																												
<p>2 speed, 2 windings  <i>2 brzine, 2 namota</i></p>		<p style="text-align: center;"><b>53</b></p> <p style="text-align: right;">3</p>	 <table border="1" data-bbox="778 1794 1027 1868"> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	1	X		X		X												0		X		X		X											2			X		X		X									
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2			X		X		X																																															

FUNCTION  
FUNKCIJA

Escutcheon plate  
Podloga

CODE

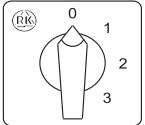
No. of elem.  
Br. elem.

Connection diagram / Šema spoja

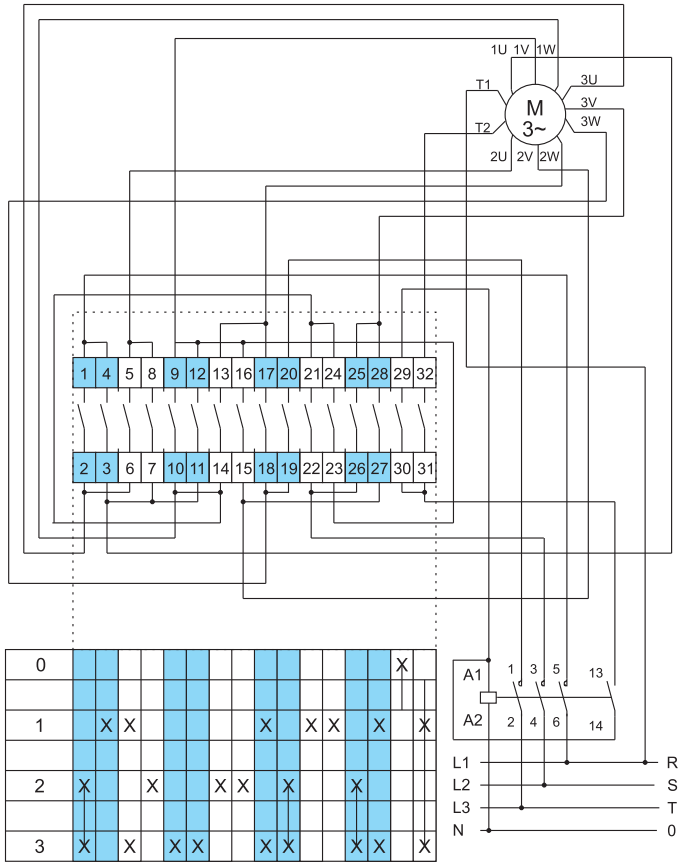
SWITCHES FOR 3-SPEED MOTOR CONTROL

SKLOPKE ZA UPRAVLJANJE TROBRZINSKIM MOTORIMA

3 speed, with contactor (ventilator run) (0-Y-Y-YY)  
*3 brzine sa sklopnikom (pogon ventilatora) (0-Y-Y-YY)*



**18** 8

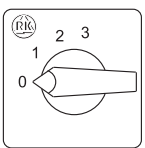


0 1 2 3

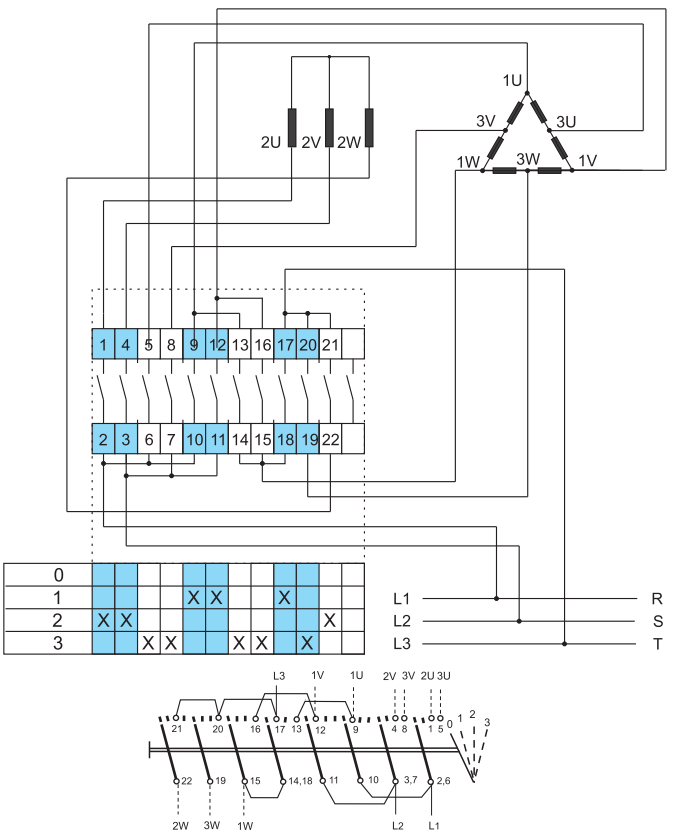
0																		X
1	X	X						X	X	X	X	X		X				X
2	X			X			X	X	X		X		X					X
3	X	X	X	X			X	X		X	X		X	X				X

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3 speed, 2 winding (1. and 3. speed Dahlander) (0-Δ-Y-YY)  
*3 brzine, 2 namota (1. i 3. brzina Dahlander) (0-Δ-Y-YY)*



**34** 6



0 1 2 3

0																		
1				X	X					X								X
2	X	X																X
3	X	X	X	X				X	X			X						X

FUNCTION  
FUNKCIJA

Escutcheon plate  
Podloga

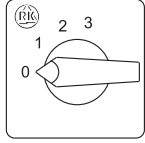
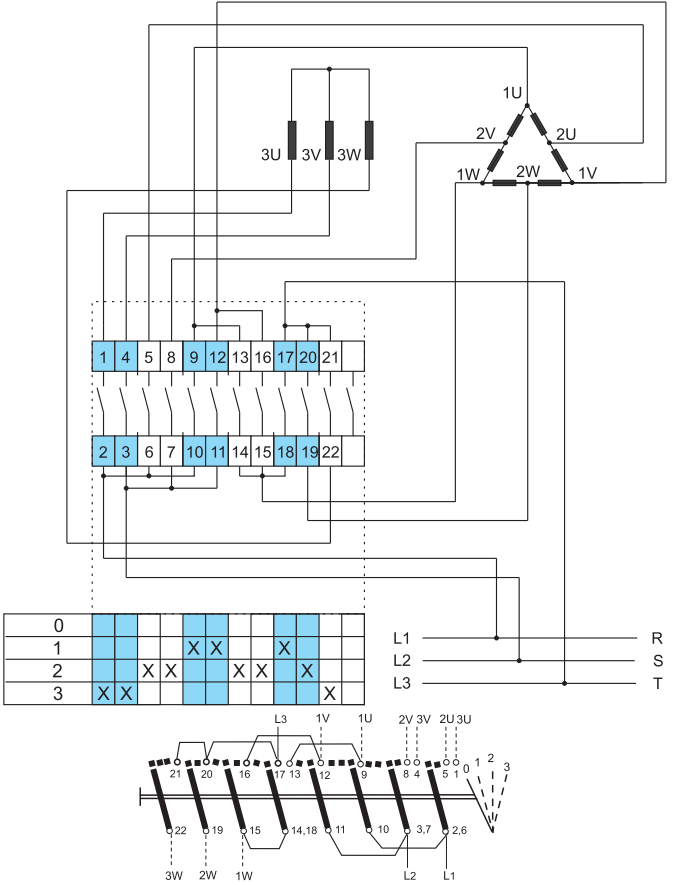
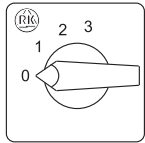
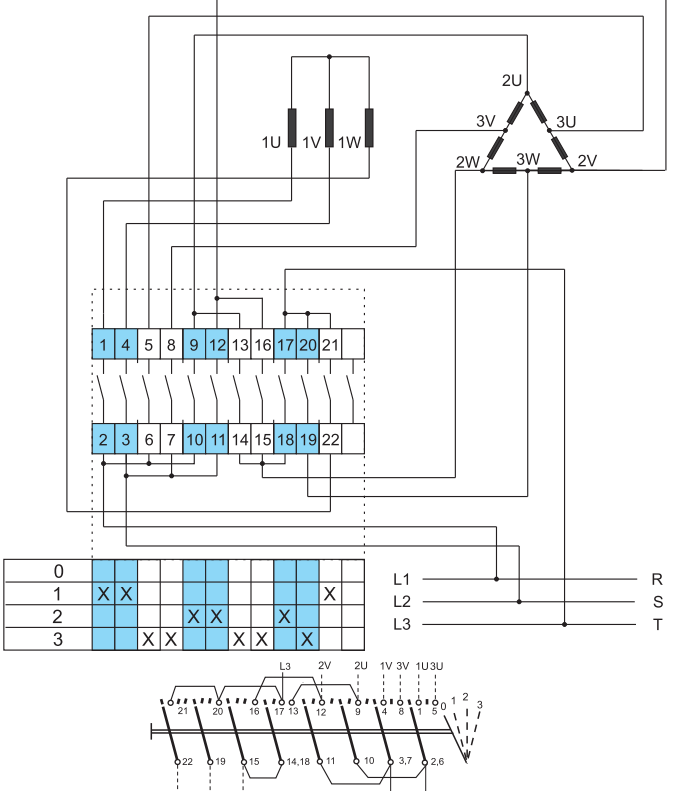
CODE

No. of elem.  
Br. elem.

Connection diagram / Šema spoja

SWITCHES FOR 3-SPEED MOTOR CONTROL

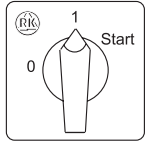
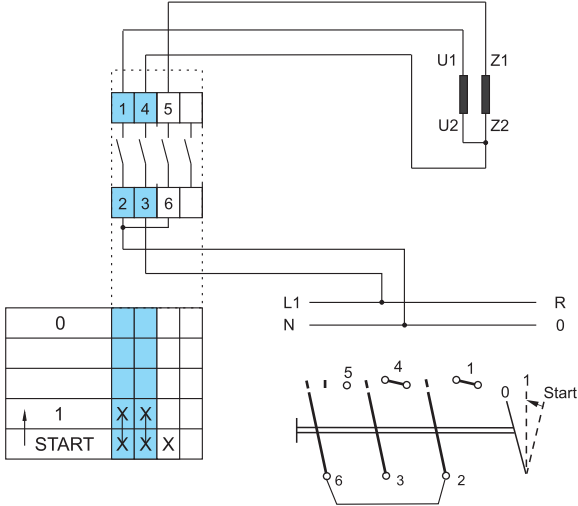

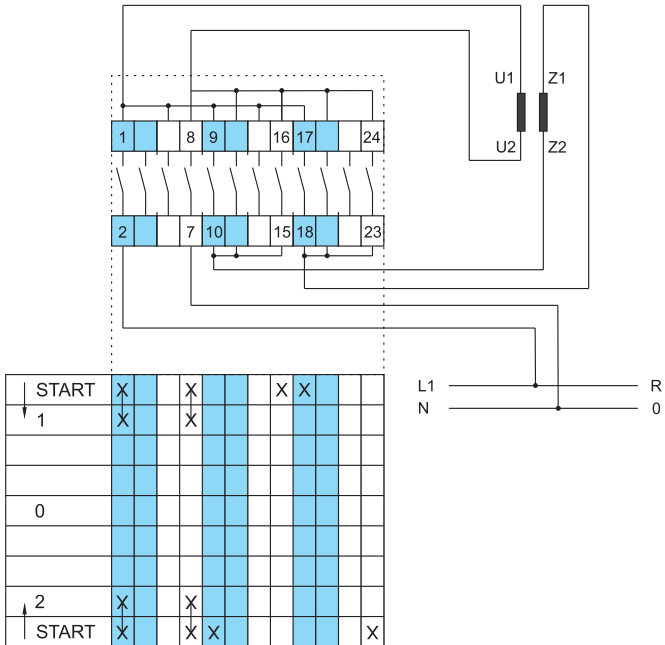
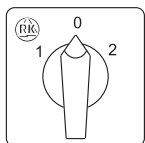
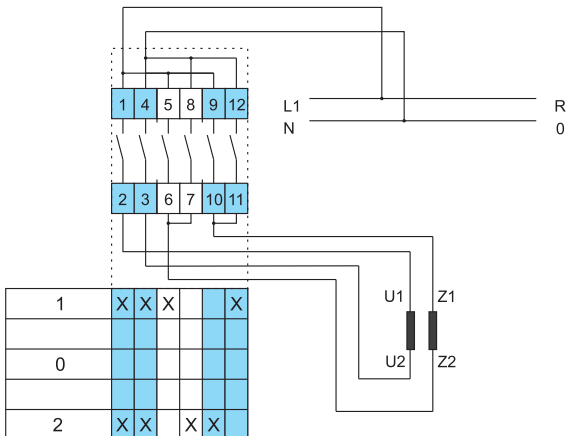
SKLOPKE ZA UPRAVLJANJE TROBRZINSKIM MOTORIMA

<p>3 speed, 2 winding (1. and 2. speed Dahlander) (0-Δ-YY-Y)</p> <p>3 brzine, 2 namota (1. i 2. brzina Dahlander) (0-Δ-YY-Y)</p>		<p><b>35</b></p>	<p>6</p>	 <table border="1" data-bbox="758 985 1125 1086"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>3</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> </table>	0																							1					X	X					X	X									X		2			X	X						X	X										X		3	X	X																				X
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<b>FUNCTION</b> <i>FUNKCIJA</i>	Escutcheon plate <i>Podloga</i>	<b>CODE</b>	Connection diagram / <i>Šema spoja</i>
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### START AND RUN SWITCHES

### SKLOPKE ZA POKRETANJE JEDNOFAZNIH MOTORA

Standard version <i>Standardna izvedba</i>		<b>15</b>	
Reversing <i>2 smjera okretanja</i>		<b>16</b>	
Reversing permanent start winding <i>2 smjera okretanja trajno uključanja pomoćna faza</i>		<b>17</b>	




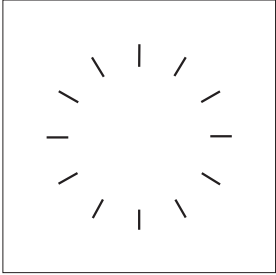
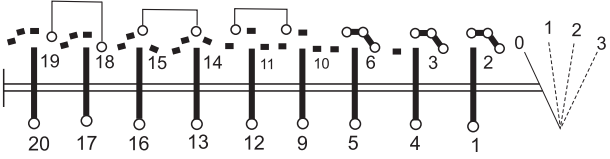
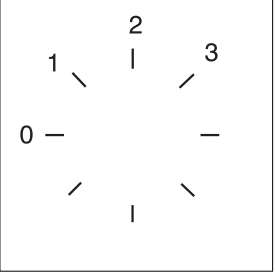
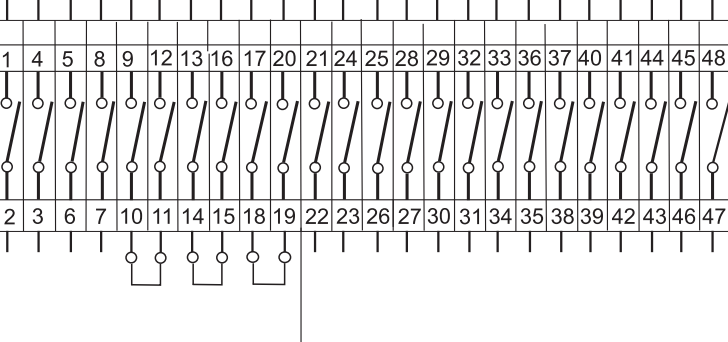


SWITCHES WITH SPECIAL SWITCHING PROGRAM

SKLOPKE SA SPECIJALNIM PROGRAMOM SKLAPANJA

When ordering cam switches whose switching program is not included in the catalogue, the purchaser is required to submit a developed diagram for switching of contacts. For this purpose is used the attached order form, which besides the diagram, it is to be filled in with date for rated current, rated voltage, utilization category, mounting form, type of handle, special version and on marks front plate. Example of filled in order form.

Priklikom narudžbe grebenaste sklopke prema programu sklapanja koji nije sadržan u ovom katalogu, potrebno je dostaviti razvijenu šemu sklapanja kontakta. Nardžbeni list je na sledećoj strani. U toj listi osim razvijene šeme treba napisati podatke za tip sklopke, za struju, napon, ugao zaokreta, oblik ugradnje, tip ručice, posebnu izvedbu i oznake na čeonjoj ploči.

Primer ispunjenog narudžbenog lista:

 <b>RADE KONČAR</b> KONTAKTORI I RELEI D.O.O.		<b>ORDER FORM</b> <i>NARUDŽBENI LIST</i>																																																																																																																																												
Rated voltage <i>Nazivni napon</i>	220 V	Type of switch <i>Tip sklopke</i>	BS or PS BS ili PS	Mounting form <i>Oblik ugradnje</i>	U	Diagram No. <i>Broj šeme</i>																																																																																																																																								
Rated current <i>Nazivna struja</i>	40 A	Utilization category <i>Kategorija primena</i>	AC 21			Special version <i>Posebna izvedba</i>																																																																																																																																								
Connection diagram <i>Šema spoja</i>																																																																																																																																														
																																																																																																																																														
Arrangement of position marks on front plate <i>Oznake položajasklopke na čeonjoj ploči</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">0</td> <td style="width: 5%;">1</td> <td style="width: 5%;">2</td> <td style="width: 5%;">3</td> <td style="width: 5%;">4</td> <td style="width: 5%;">5</td> <td style="width: 5%;">8</td> <td style="width: 5%;">9</td> <td style="width: 5%;">12</td> <td style="width: 5%;">13</td> <td style="width: 5%;">16</td> <td style="width: 5%;">17</td> <td style="width: 5%;">20</td> <td style="width: 5%;">21</td> <td style="width: 5%;">24</td> <td style="width: 5%;">25</td> <td style="width: 5%;">28</td> <td style="width: 5%;">29</td> <td style="width: 5%;">32</td> <td style="width: 5%;">33</td> <td style="width: 5%;">36</td> <td style="width: 5%;">37</td> <td style="width: 5%;">40</td> <td style="width: 5%;">41</td> <td style="width: 5%;">44</td> <td style="width: 5%;">45</td> <td style="width: 5%;">48</td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							0	1	2	3	4	5	8	9	12	13	16	17	20	21	24	25	28	29	32	33	36	37	40	41	44	45	48	0																											1	X	X	X			X	X																				2								X	X																		3	X	X	X								X	X														
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 <b>RADE KONČAR</b> KONTAKTORI I RELEI D.O.O.		Purchaser <i>Naručuje</i> _____ Address <i>Adresa</i> _____ Telephone _____ Fax _____ Datum _____ <i>Telefon Fax</i>																																																																																																																																												



**NEW / *NOVO***





































See Catalogue 2013 - 2014  
*Vidi Katalog 2013 - 2014*



# PRODUCTION PROGRAM OF ROTARY CAM SWITCHES

## PROIZVODNI PROGRAM GREBENASTE SKLOPKE

PS 10; PS 16; PS 25	BS 10; BS 20 .. N	BS 10; BS 20 .. L	BS 10; BS 20 .. U ES	BSB 20; BSB 25
				
PS 32	BS 25 .. N	BS 25 .. L	BS 25 .. ES	PNBS 20; PNBS 25
				
PS 40	BS 32 .. N	BS 32 .. LK	BS 32 .. ES	PNGBS
				
PS 63	BS 40 .. N	BS 40 .. LK	BS 40 .. ES	PNGBS LK
				
PS 80; PS 100	BS 50; BS 63 .. N	BS 50; BS 63 .. LK	BS 50; BS 63 .. ES	PNPS 10; PNPS 16; PNPS 25
				
BS 125	BS 80 .. N; BS 100 K .. N	BS 80 .. LK; BS 100 K .. LK	BS 80 .. ES; BS 100 K .. ES	PNGPS
				
BS 200	BS 400	BS 630	BS 200 S8	PNGPS LK
				



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