

LONG-LASTING SWITCHING RELIABILITY!

TRADITIONAL SLOVAK
MANUFACTURER SINCE 1948



PRODUCT
CATALOG
CAM SWITCHES

SCZ[®]

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Introduction

About the company

SEZ with a 75-year tradition, is a reliable manufacturer of complex low and high-voltage electrical devices used for circuit protection and control, including protection against electric current accidents. The company has its own manufacturing capacities, which include modern technologies for the production of metal components, plastic parts, molds and tools, as well as surface treatment, welding and assembly technologies.

With its own development capacities, an in-house testing laboratory, and cooperation with universities, the company has the potential for continuous product innovation to meet customer needs and comply with international standards.

The sale of products both domestically and internationally is supported by certificates from independent accredited testing laboratories in Slovakia, the Czech Republic, England, Ukraine, and Germany. The company holds the EN ISO 9001:2015 quality management system certificate and the EN ISO 14001:2015 certificate. Additionally, the company holds certificates for products according to UL 1077 and UL 508 standards, as well as CCA, and CCB certificates.

Our Motto

Over the years, SEZ has been known as a supplier of low-cost, acceptable-quality products. Our new motto is: "You can rely on us for switching solutions."

Market position

Over the past few years, the company has managed to build on the successes achieved in the field of electrical engineering in the '80s and '90s and gradually regain its position in the domestic market, in the Czech Republic, and in other European and world markets. With a balanced distribution of export activities, it was possible to largely eliminate the consequences of local economic crises and the activities of competitors, thereby ensuring the stability of the company as a whole.

Cam switches

A

Rotary switches

B

Compact power switches

C

Others

D

General

Cam switches series S6, 10, 16, 25, 32, 40, 63, 80, 100, 125, 160 J are a new generation of switches in current line from 6 to 160 A. They are divided to five sizes:

- size I** switches S6, 10 J - size of the switching element 34x33x(10,5) mm
- size II** switches S16, 25 J - size of the switching element 43x43x(13,5) mm
- size III** switches S32, 40 J - size of the switching element 56x53x(16) mm
- size IV** switches S63, 80 J - size of the switching element 66x66x(18,5) mm
- size V** switches S100, 125, 160 J - size of the switching element 77x84x(21) mm
(The number in parenthesis is a height of one switching chamber)

Cam switches in IV. and V. size have identical detent room Ø 66 mm and fixation on the panel.

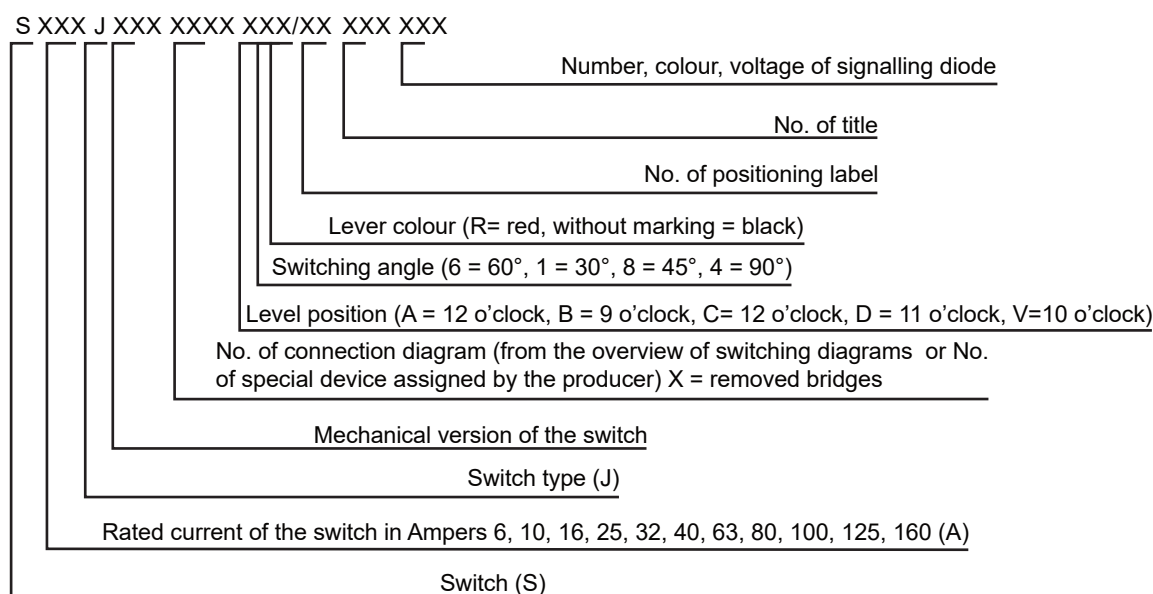
CAM SWITCHES SERIES S..J :

- they are in accordance with STN EN 947-3, EN 60 204-1
- all terminals and interconnection are protected against contact (IP20)
- all execution are produced to reach the protection mode of IP 65 with delivery of the sealing elements designed with G to seal the shaft and fastening screws
- the cam switches in size I. - IV. have entrance to terminals with screwdriver in angle 45° and corrected readability of terminals designations on skewed area too
- switching angle: 30°, 45°, 60° and 90° (preferential angle 60° - maximum 6 switching position; angle 30° - maximum 12 switching position)
- small and unification switch sizes
- flexibility of mechanical execution
- extended selection of electrical execution by catalog
- maximum number of the switching chambers is 12 (24 contacts)
- they are in accordance with T32 requirements and they meet surrounding temperatures from -30° to +55°C.

Application

- Power switches for switching of motors with load in AC3, AC23
- Switches in the auxiliary and measuring circuits
- Connection of the resistance loads and electric furnaces
- Stage change-over switches of the transformers, welding machines...
- Switches with reversible position for testing purposes and single-phase motors
- Change-over switches, switches of Y D , poles switching (speed) of multirevolution motors

Type designation



Customer specifies required electrical parameters, switching program, and version. Switch type (**bold-framed section**) determined by the manufacturer!

Order example:

S16JVDG 2203X A6 R/ 01 N01 1R4

As an example, the following cam switch is specified:

- cam switch with rated current 16 A
- with reversible position (V), with frontal plate (D), with rubber insulation for IP65 (G)
- three - pole switch (2203) without interconnector (X)
- basic position of the lever A (12 hod), switching angle 60° (6)
- red lever (R)
- label position 01 with inscription **MASTER SWITCH**
- switch with 1 indication diode (red) for voltage 230 V~

When specifying the switch, is necessary use the base catalog with mechanical and electrical charts.

For substandard version of switch is necessary supply the specification sheet and send it to producer.

When no required position, switching angle, label position or inscription is stated, the A lever position (12 Hours), switching angle of 60° or other regarding to required switching programme and relevant position label will be determined by the producer.

Label, inscription and LED diode No. are to be stated if they are resulted from mechanical execution and they are required specifically. (Type designation up to vertical dividing line).

Mechanical Execution

Switch with fixing to the panel (front mounting)

Type designation	Execution description
S ... J	With lever (without frontal plate)
S ... JE	With handle and terminal pins
S ... JD	With lever and frontal plate
S ... JU	Switch with possibility to be locked by 3 padlocks
S ... JZ	With the zero position (or other required positions -cite) to be locked with propelling FAB lock
S ... JZE	With lock EUROLOCK
S ... JV	Switch with one or two reversible positions (only switch S6 - 25 J)
S ... JG	With lever and rubber insulation for IP 65
S ... JDG	Switch with frontal plate and rubber insulation for IP65
S ... JK / JKD	Central fixing of the switch to the hole of 22 diameter with control by key (only S6 - 25 J)
S ... JR / JRD	Central fixing of the switch to the hole of 22 diameter with control by lever (only S6 - 25 J)
S ... JT	SEquipped with a locking button that locks the lever in the "0" position (specify another position if applicable).
S ... JF / JZF	Switch with light alarm (1-3 LED diodes)

Switches with rear fixing (reversed mounting)

Type designation	Execution description
S ... JO	Rear fixing of switches (reversed mounting)
S ... JLD	Switch with frontal plate fastened to the strip TH 35-7,5
S ... JLS	Switch fastened to the strip TH 35-7,5, with label 52,5x45 mm (only S6, 10, 16, 25 J)
S ... JBD	With lever and frontal plate in the door
S ... JBU	With lockable lever in the door
S ... JBZ	With propelling lock in the door
S ... JPDM	Switch in the small box with frontal plate (IP65)
S ... JPUM	Switch in the small box with lockable lever (IP65)
S ... JNPD	Switch in the new box with frontal plate (IP65)
S ... JNPU	Switch in the new box with lockable lever (IP65)
S ... JPD	Switch in the box with frontal plate (IP65)
S ... JPU	Switch in the box with lockable lever (IP65)
S ... JPZ	Switch in the box with propelling FAB lock (IP65)
S ... NJU	In cover from plastic material with 3 fuses and lockable level 1 - 3 padlocks (S16 - 25J)
S ... NJZ	In cover from plastic material and 3 fuses and propelling FAB lock (S16 - 25J)
S ... NJZE	In cover from plastic material and 3 fuses and propelling EUROLOCK (S16 - 25J)
S ... NJD	In cover from plastic material with front plate and 3 fuses (S16 - 25 J)

Notes: All mechanical executions of switches are each other compatible, e.g. S16JVDG is switch of 16A rated current, with reversible position (V), frontal plate (D) and rubber insulation (G) for IP65. Executions JV, JR, JK, JLS are only available for switches of size I, II. Other special mechanical design requirements can be accommodated upon agreement with the manufacturer.

Technical data

Type of switch		S6J	S10J	S16J	S25J	S32J	S40J	S63J	S80J	S100J	S125J	S160J
Rated insulation voltage U_i , V*		500	500	690**	690**	690	690	690	690	690	690	690
Impulse withstand voltage U_{imp} , kV		4	4	4	4	6	6	6	6	6	6	6
Rated thermal current I_{th} ,A		6	10	20	25	32	40	63	80	100	125	150
Rated operational current I_e ,A,AC-21A;AC-1		6	10	16	25	32	40	60	80	100	125	150
Rated operational power, kW / rated operational current I_e ,A												
AC-3 short armaturemotor ; starting, stopping	1 phase 220-240V	0,9/5,1	1,5/8,5	1,7/9,6	2,6/14,7	4/22,7	4,4/25	5/28,4	7,3/40	10/56,8	11/64,3	13/73,8
	3 phase 220-240V	1,9	2,5	3	4,5	7	7,7	8,5	12	17	20	23
	380-440V	2,5/4,5	3,5/6,3	4/7,2	7,5/13,5	12/17,3	13/18,8	15/27	21/38	30/54	35/63	40/72
	500V	2,5	3,5	4	7,5	12	13	15	21	30	35	40
AC-23A switching of motor and high inductive loads	1 phase 220-240V	1/5,5	1,7/9,6	2,3/13	3/17	6,8/32	7,3/40	10/56,8	11,3/64	13/73,8	15/86,8	18/102
	3 phase 220-240V	2,2	3	4	5,5	10	12,5	17	19	23	26	30
	380-440V	3,3/6	5,5/10	7,5/13,5	11/19,8	17,5/32	22/40	30/54	34/62	40/72	44/80	55/99
	500V	3,3	5,5	7,5	11	22	27	30	34	40	44	55
Rated DC operational current I_e ,A												
- DC	24V	6/4	10/8	16/8	25/8	32/12	34/12	63/25	80/28	100/32	125/48	150/63
(One switching contact)	48V	3,7/2	6/4	6/4	6/4	25/10	25/10	25/16	25/16	32/20	32/20	32/20
DC-21A / DC-22	110V	0,7/0,2	1/0,3	1/0,3	1/0,3	4/3	4/3	4/3	4/3	5/4	5/4	5/4
(Resistive load / DC motors)	220V	0,2/0,1	0,3/0,2	0,3/0,2	0,3/0,2	1/0,4	1/0,4	1/0,4	1/0,4	1,2/0,5	1,2/0,5	1,2/0,5
Rated conditional short circuit current I_{cn} , kA		3	4	5	5	10	10	8	8	10	10	10
With fuse gG,A		6	10	16	25	32	40	63	80	100	125	160
Rated short time withstand current - 1sec I_{cw} ,A		160	200	220	500	800	1000	1200	1200	1500	1700	2000
Rated short circuit making capacity I_{cm} , A		320	400	400	500	800	1000	1200	1200	1500	1550	1600
Mechanical endurance(operations)		1000000	1000000	1000000	1000000	300000	300000	300000	300000	300000	300000	300000
Terminals, mm²		0,5-2,5	0,5-2,5	1-4	1,5-4	2,5-10	2,5-10	6-16	6-16	16-50***	16-50***	16-50***
Terminal screw		M3	M3	M4	M4	M5	M5	M5	M5	M6x0,75	M6x0,75	M6x0,75
Control winch		®5	®5	®5	®5	®5	®5	®6	®6	®6	®6	®6

Note.:

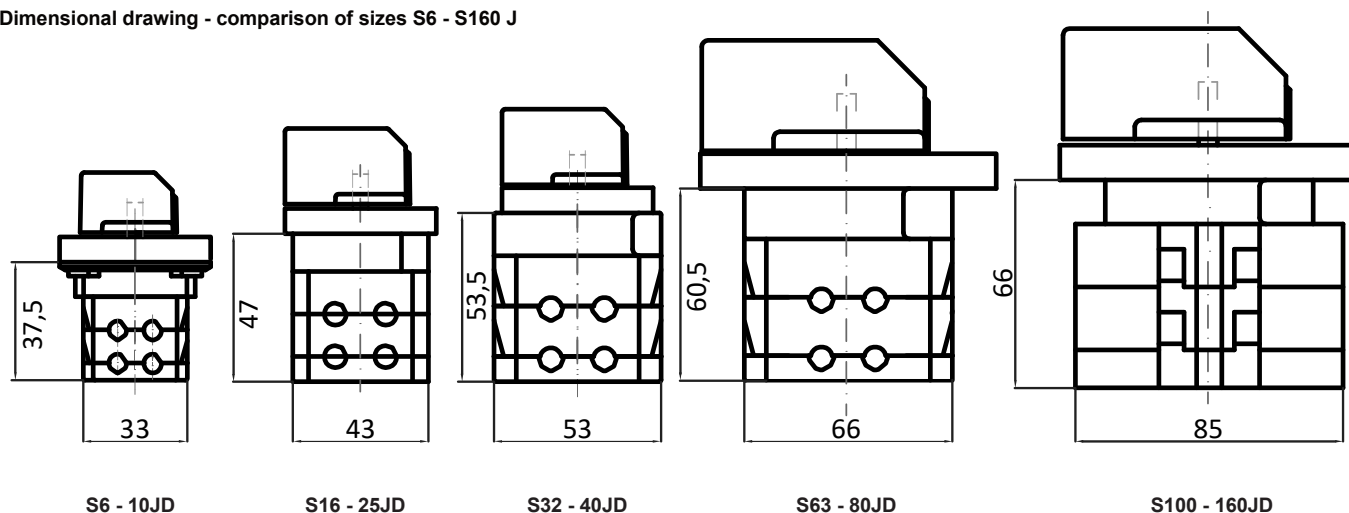
* STN EN 330420 - for circuits with grounded neutral point, category of overvoltage III and degree of pollution 2 ;

$U_i=500V$, if degree of pollution 3

** Main switch (execution S...JU) reduction of U_i to 400 V

*** for 1 rigid Cu wire - max size 70 mm²

Dimensional drawing - comparison of sizes S6 - S160 J



PANEL MOUNTING SWITCHES

S ... J, JE, JD, JU, JZ, JZE, JV, JG, JDG, JK, JR, JT, JF

Dimensions (mm)

Type	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	R	S	H1	U	V	X	Y	Z
S 6,10J	48	36	66	8	13	17,5	1,5	10,5	9	31	30	-	23	3	19	30	34	5	5,5	33	15	3,2	46
S 16, 25J	48	36	66	8	14	24	1,5	13,5	9	31	35	M4	23	3	24	30	43	5	5,5	43	19	4,2	46
S 32, 40J	48	36	66	8	20,5	31	1,5	16	9	31	35	M4	23	3	24	30	56	5	7,5	53	19	4,2	46
S 63, 80J	94	75	66	11	22	46	2	18,5	10	42	50	M5	30	4	35	50	66	6	7,5	66	34,5	5,4	74
S 100-160J	94	75	106	11	22	46	2	21	10	42	50	M5	30	4	35	50	77	6	7,5	85	34,5	5,4	74

Type	L for No. of chambers											
	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10J	27,5	38	48,5	59	69,5	80	90,5	101	111,5	122	132,5	143
S 16, 25J	33,5	47	60,5	74	87,5	101	114,5	128	141,5	155	168,5	182
S 32, 40J	37,5	53,5	69,5	85,5	101,5	117,5	133,5	149,5	165,5	181,5	197,5	213,5
S 63, 80J	42	60,5	79	97,5	116	134,5	153	171,5	190	208,5	227	245,5
S 100-160J	45	66	87	108	129	150	171	192	213	234	255	276

SWITCHES IN ENCLOSURES

S ...J, JO, JLD, JLS, JBD, JBU, JBZ, JPD, JPU, JPDM, JPUM, NJU, NJZ, NJD

Dimensions (mm)

Type	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	R	S	H1	U	V	X	Y	Z
S 6,10J	48	36	66	8	13	17,5	1,5	10,5	9	31	30	-	23	3	19	30	34	5	5,5	33	15	3,2	46
S 16, 25J	48	36	66	8	14	24	1,5	13,5	9	31	35	M4	23	3	24	30	43	5	5,5	43	19	4,2	46
S 32, 40J	48	36	66	8	20,5	31	1,5	16	9	31	35	M4	23	3	24	30	56	5	7,5	53	19	4,2	46
S 63, 80J	94	75	66	11	22	46	2	18,5	10	42	50	M5	30	4	35	50	66	6	7,5	66	34,5	5,4	74
S 100-160J	94	75	106	11	22	46	2	21	10	42	50	M5	30	4	35	50	77	6	7,5	85	34,5	5,4	74

Type	Z1	V1	S1	B1	B2	U1	U2	L1	L2	L3	D1	D2	D3	A1	F1	A2	C1
S 6,10J	22	110	87	66	73	5,5	10,5	86	100	159	64	14	8	72	35	48	66
S 16, 25J	22	110	87	66	73	5,5	10,5	86	100	159	64	14	8	72	35	48	66
S 32, 40J	30	160	140	110	110	6,5	12	108	140	-	84	16	10	119	58	66	106
S 63, 80J	30	160	140	110	110	6,5	12	108	140	-	84	16	10	119	58	66	106
S 100-160J	30	160	140	110	110	6,5	12	140	-	-	84	16	10	119	58	66	106

Type	T for No. of chambers											
	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10J	84	94,5	105	115,5	126	136,5	147	157,5	168	178,5	189	199,5
S 16, 25J	90	103,5	117	130,5	144	157,5	171	184,5	198	211,5	225	238,5
S 32, 40J	98	114	130	146	162	178	194	210	226	242	258	274
S 63, 80J	102,5	121	139,5	158	176,5	195	213,5	232	250,5	269	287,5	306
S 100-160J	105	126	147	168	189	210	231	252	273	294	315	336

Type	L4 for No. of chambers											
	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10J	70	70	70	70	112	112	112	112	154	154	154	154
S 16, 25J	62	62	76	130	130	130	130	197,5	197,5	197,5	197,5	197,5
S 32, 40J	112	112	112	112	169	169	169	253	253	253	295	295
S 63, 80J	115	115	115	115	172	172	172	256	256	256	298	298
S 100-160J	115	115	115	172	172	172	256	256	256	256	298	298

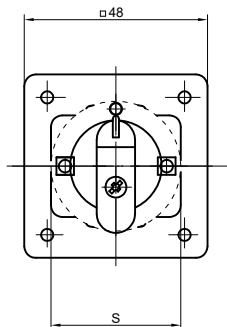
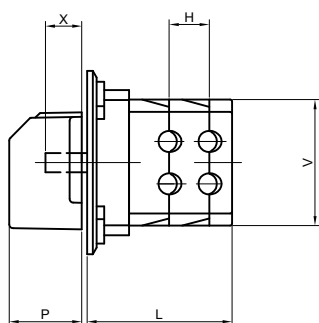
Type	Max. for No. of chambers		
	L1	L2	L3
S 6, 10J	3	4	9
S 16, 25J	2	3	7
S 32, 40J	2	4	-
S 63, 80J	2	4	-
S 100-160J	3	-	-



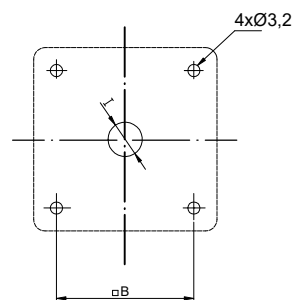
CAM SWITCHES S ... J

- Switch with handle without frontal plate

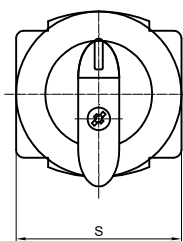
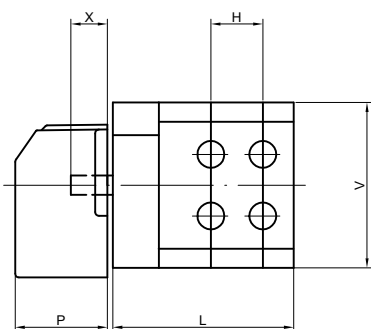
S 6, 10 J



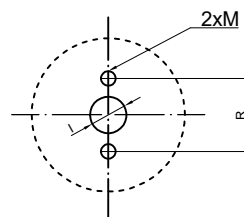
mounting on panel



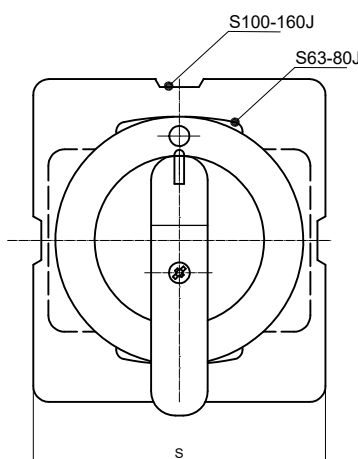
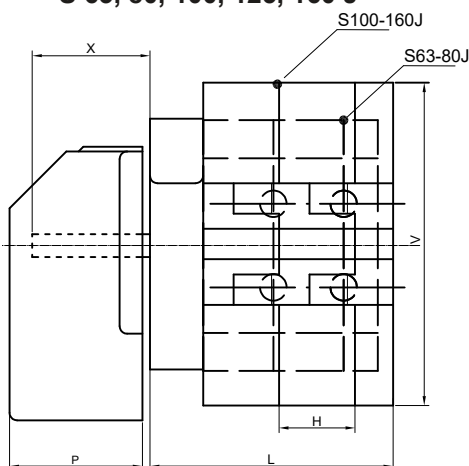
S 16, 25, 32, 40 J



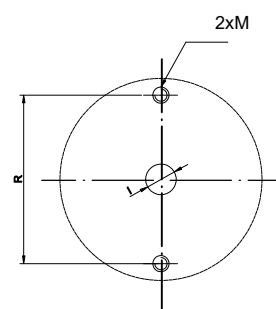
mounting on panel



S 63, 80, 100, 125, 160 J



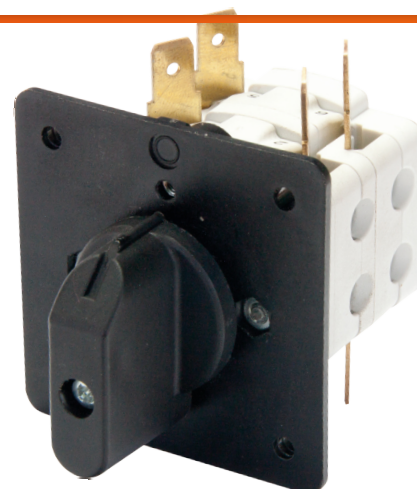
mounting on panel



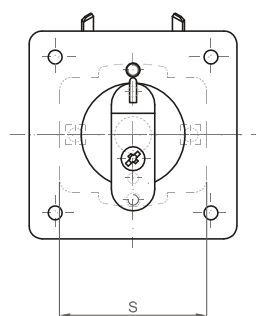
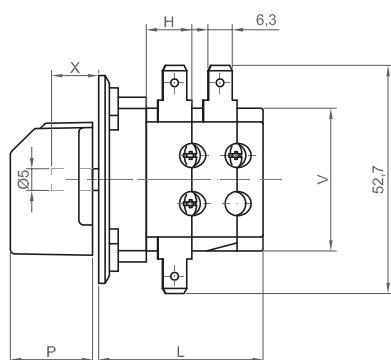
Type	B	H	I	M	P	R	S	V	X	L for No. of chambers (max. 12)				Each additional cam chamber
										1	2	3	4	
S6,10 J	36	10,5	9	-	19	30	34	33	15	27,5	38	48,5	59	+10,5
S16,25 J	36	13,5	9	M4	24	30	43	43	19	33,5	47	60,5	74	+13,5
S32,40 J	36	16	9	M4	24	30	56	53	19	37,5	53,5	69,5	85,5	+16
S63,80 J	75	18,5	10	M5	35	50	66	66	34,5	42	60,5	79	97,5	+18,5
S100-160 J	75	21	10	M5	35	50	77	85	34,5	45	66	87	108	+21

CAM SWITCHES S ... JE

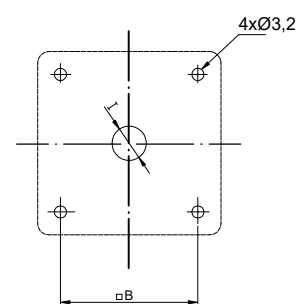
- Switch with handle and terminal pins



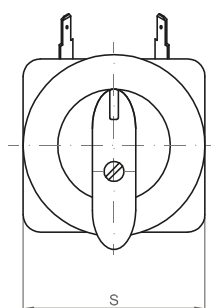
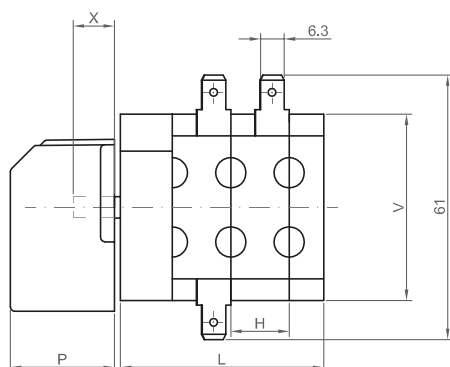
S 6, 10 JE



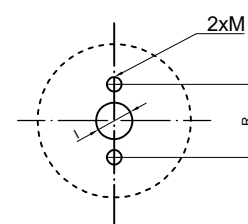
mounting on panel



S 16, 25 JE



mounting on panel



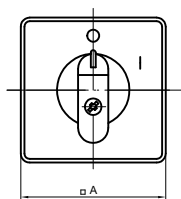
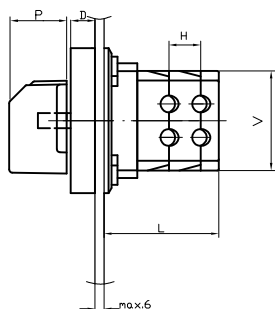
Type	B	H	I	M	P	R	S	V	X	L for No. of chambers (max. 12)				Each additional cam chamber
										1	2	3	4	
S6,10 JE	36	10,5	9	-	19	30	34	33	15	27,5	38	48,5	59	+10,5
S16,25 JE	36	13,5	9	M4	24	30	43	43	19	33,5	47	60,5	74	+13,5



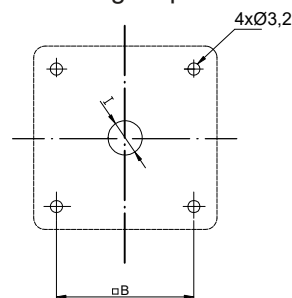
CAM SWITCHES S ... JD

- Switch with handle with frontal plate

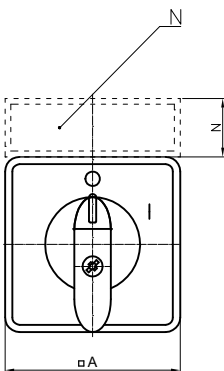
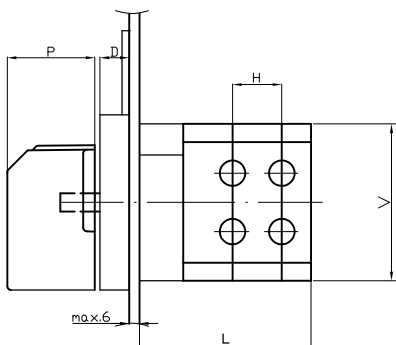
S 6, 10 JD



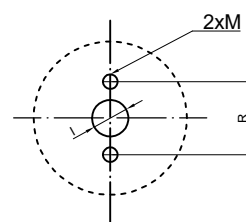
mounting on panel



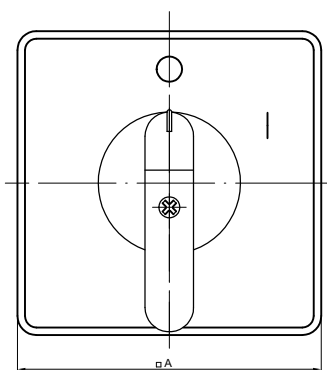
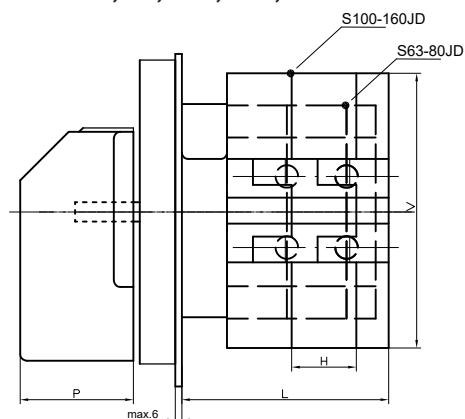
S 16, 25, 32, 40 JD



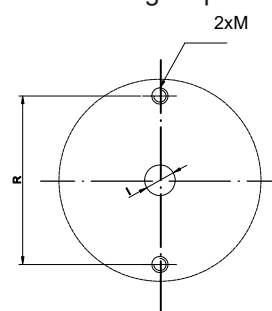
mounting on panel



S 63, 80, 100, 125, 160 JD



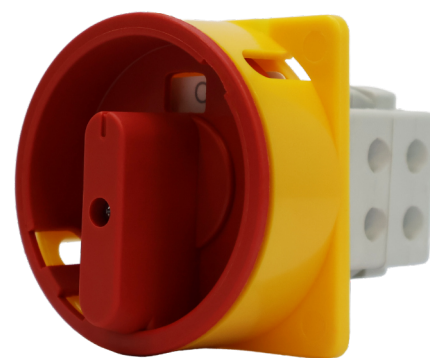
mounting on panel



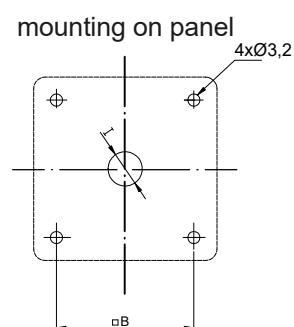
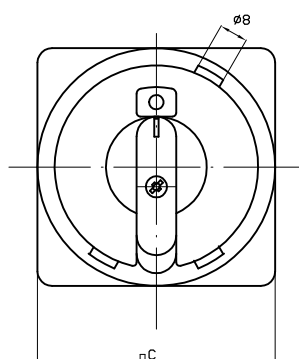
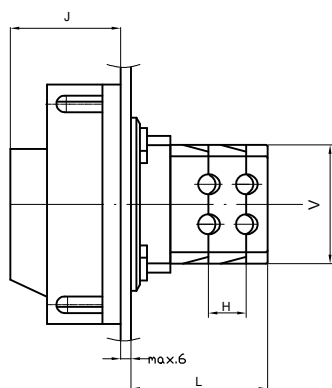
Type	A	B	D	H	I	M	N	P	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
											1	2	3	4	
S6,10 JD	48	36	8	10,5	9	-	23	19	30	33	27,5	38	48,5	59	+10,5
S16,25 JD	48	36	8	13,5	9	M4	23	24	30	43	33,5	47	60,5	74	+13,5
S32,40 JD	48	36	8	16	9	M4	23	24	30	53	37,5	53,5	69,5	85,5	+16
S63,80 JD	94	75	11	18,5	10	M5	30	35	50	66	42	60,5	79	97,5	+18,5
S100-160 JD	94	75	11	21	10	M5	30	35	50	85	45	66	87	108	+21

CAM SWITCHES S ... JU

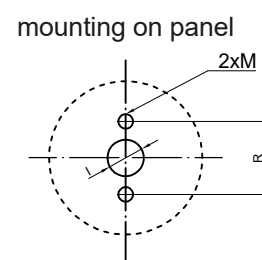
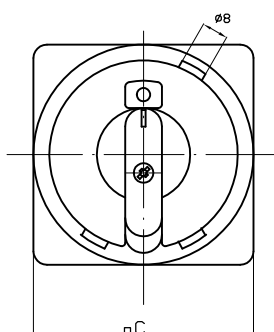
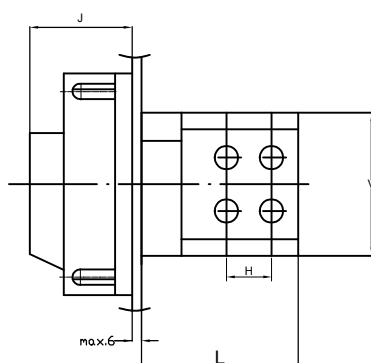
- Switch with possibility to be locked by 3 padlocks ($\varnothing$ 5-8 mm)
- Switch as master or emergency switch



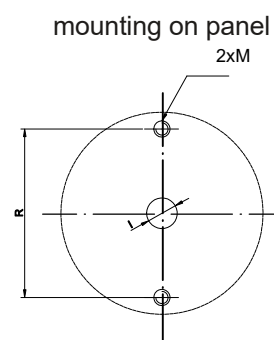
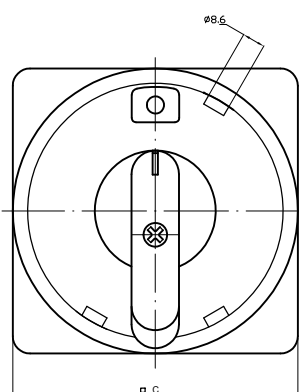
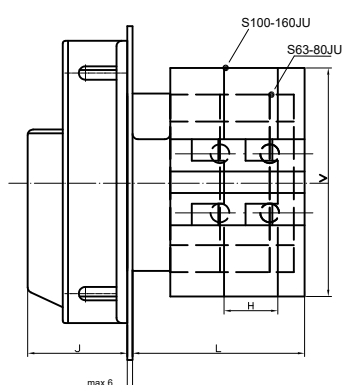
S 6, 10 JU



S 16, 25, 32, 40 JU



S 63, 80, 100, 125, 160 JU



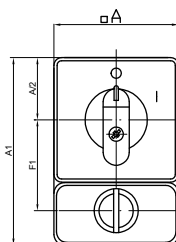
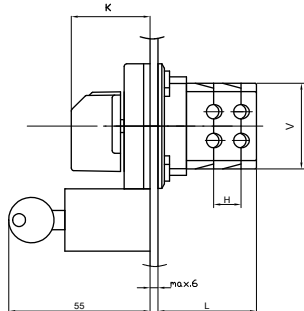
Type	B	C	H	I	J	M	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
									1	2	3	4	
S6,10 JU	36	66	10,5	9	31	-	30	33	27,5	38	48,5	59	+10,5
S16,25 JU	36	66	13,5	9	31	M4	30	43	33,5	47	60,5	74	+13,5
S32,40 JU	36	66	16	9	31	M4	30	53	37,5	53,5	69,5	85,5	+16
S63,80 JU	75	66	18,5	10	42	M5	50	66	42	60,5	79	97,5	+18,5
S100-160 JU	75	106	21	10	42	M5	50	85	45	66	87	108	+21



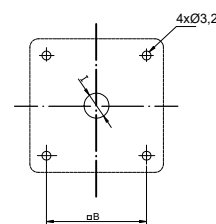
CAM SWITCHES S ... JZ

- Switch with the zero position (or other required positions) to be locked with propelling lock

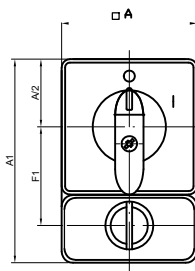
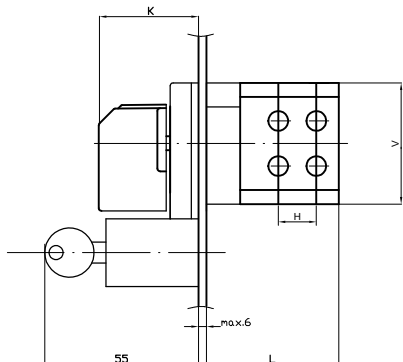
S 6, 10 JZ



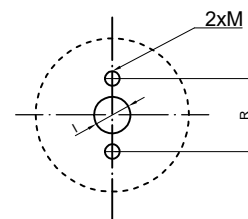
mounting on panel



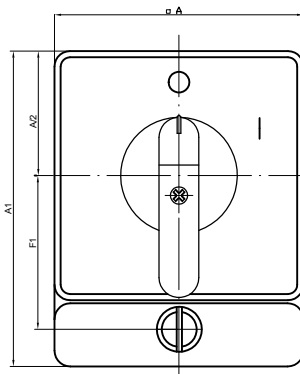
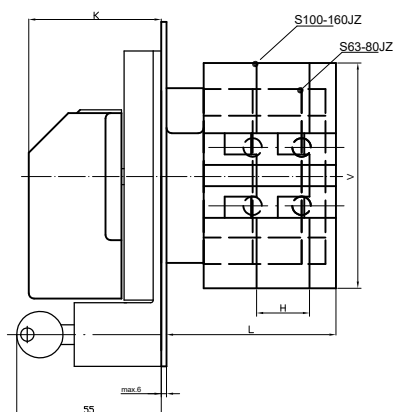
S 16, 25, 32, 40 JZ



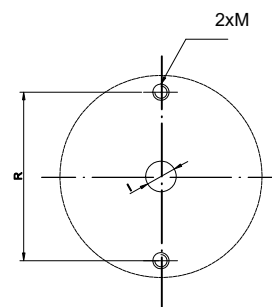
mounting on panel



S 63, 80, 100, 125, 160 JZ



mounting on panel



Type	A	A1	B	F1	H	I	K	M	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
											1	2	3	4	
S6,10 JZ	48	72	36	35	10,5	9	30	-	30	33	27,5	38	48,5	59	+10,5
S16,25 JZ	48	72	36	35	13,5	9	30	M4	30	43	33,5	47	60,5	74	+13,5
S32,40 JZ	48	119	36	58	16	9	30	M4	30	53	37,5	53,5	69,5	85,5	+16
S63,80 JZ	94	119	75	58	18,5	10	50	M5	50	66	42	60,5	79	97,5	+18,5
S100-160 JZ	94	119	75	58	21	10	50	M5	50	85	45	66	87	108	+21

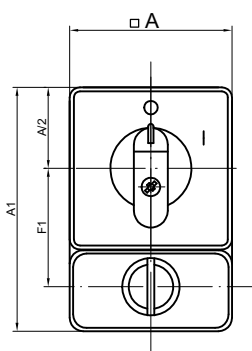
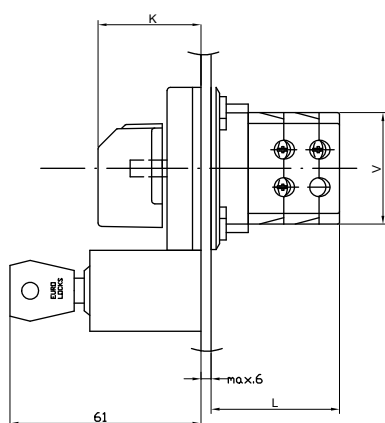
CAM SWITCHES S ... JZE with EUROLOCK lock

- This switch expands the range of existing JZ switches with FAB locks and fully replaces this series.

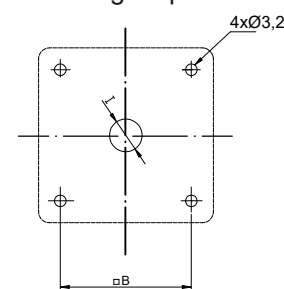
- The EUROLOCK lock meets all the requirements of our clients and, thanks to greater availability and easy installation, can provide the same quality as FAB locks at a more favorable price. We also offer cam switches of the new JZE series with the "master key" option.



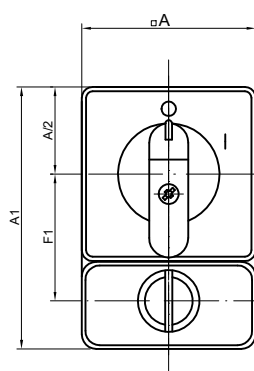
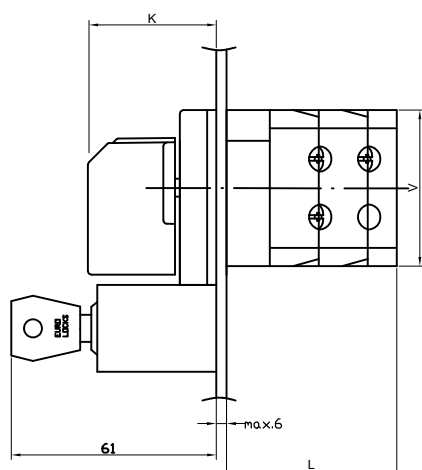
S 6, 10 JZE



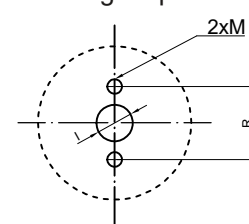
mounting on panel



S 16, 25, 32, 40 JZE



mounting on panel



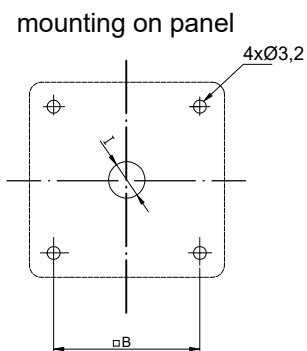
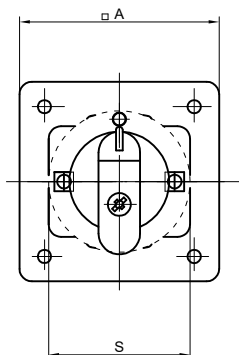
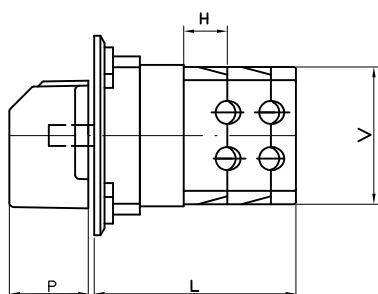
Type	A	A1	B	F1	H	I	K	M	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
											1	2	3	4	
S6,10 JZE	48	72	36	35	10,5	9	30	-	30	33	27,5	38	48,5	59	+10,5
S16,25 JZE	48	72	36	35	13,5	9	35	M4	30	43	33,5	47	60,5	74	+13,5
S32,40 JZE	48	119	36	58	16	9	35	M4	30	53	37,5	53,5	69,5	85,5	+16



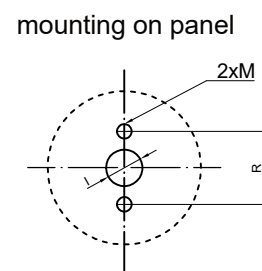
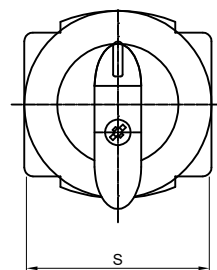
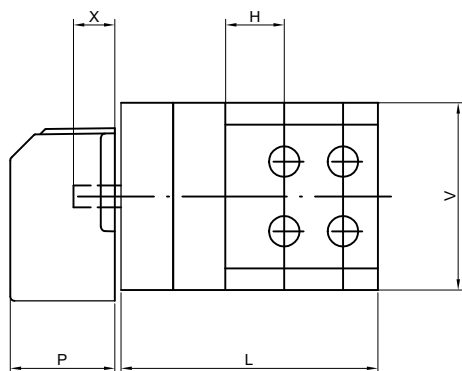
CAM SWITCHES S ... JV

- Switch with one or two reversible positions also through more positions
- Maximum possible angle of reversible control 120°
- When specifying the switch, is necessary state (switches with two and more positions) the reversible and locking position, for example the switch with switching position 0-1-2 by move from position 2 to 1 is signify as V2-A1

S 6, 10 JV



S 16, 25, 32, 40 JV



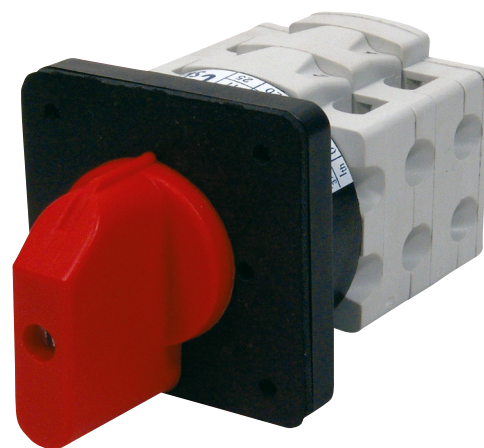
Type	A	B	H	I	M	P	R	S	V
S6,10 JV	48	36	10,5	9	-	19	30	34	33
S16,25 JV	48	36	13,5	9	M4	24	30	43	43

Type	L (mm) for No. of chambers											
	1	2	3	4	5	6	7	8	9	10	11	12
S6,10 JV	38	48,5	59	69,5	80	90,5	101	111,5	122	132,5	143	154,5
S16,25 JV	47	60,5	74	87,5	101	114,5	128	141,5	155	168,5	182	195,5
S32,40 JV	53,5	69,5	85,5	101,5	117,5	133,5	149,5	165,5	181,5	197,5	213,5	229,5

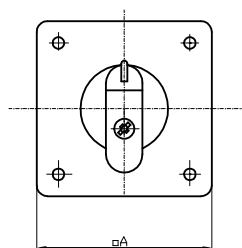
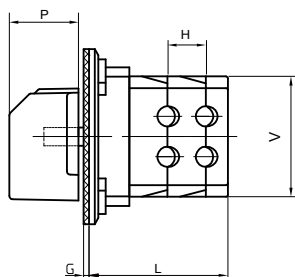
CAM SWITCHES S ... JG

- Switch with rubber insulation for IP 65

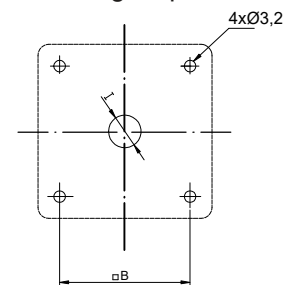
	S 6 - 10JG	S 16 - 40JG	S 63 - 160JG
A - Fixation by two self tapping screws	D3,5	D4	D4
B - Fixation by two bolts and nuts	M3	M4	M5



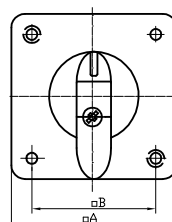
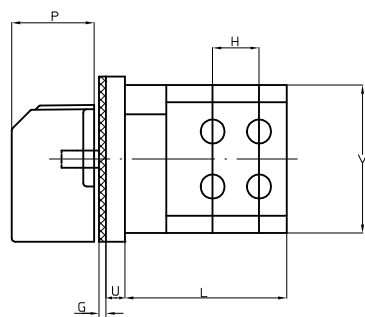
S 6, 10 JG



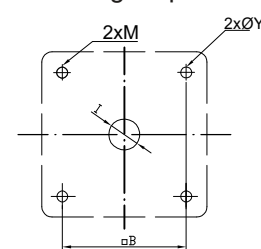
mounting on panel



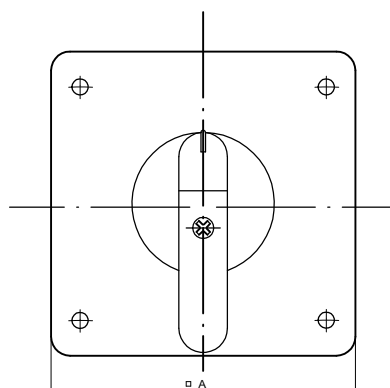
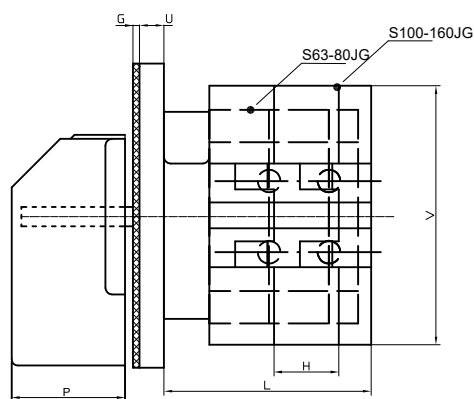
S 16, 25, 32, 40 JG



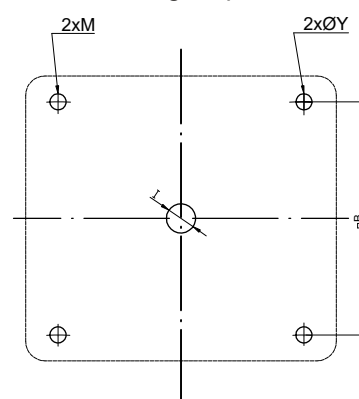
mounting on panel



S 63, 80, 100, 125, 160 JG



mounting on panel



Type	A	B	G	H	I	M	P	U	V	Y	L for No. of chambers (max. 12)				Each additional cam chamber
											1	2	3	4	
S6,10 JG	48	36	1,5	10,5	9	-	19	5,5	33	3,2	27,5	38	48,5	59	+10,5
S16,25 JG	48	36	1,5	13,5	9	M4	24	5,5	43	4,2	33,5	47	60,5	74	+13,5
S32,40 JG	66	36	1,5	16	9	M4	24	7,5	53	4,2	37,5	53,5	69,5	85,5	+16
S63,80 JG	94	75	2	18,5	10	M5	35	7,5	66	4,2	42	60,5	79	97,5	+18,5
S100-160 JG	94	75	2	21	10	M5	35	7,5	85	4,2	45	66	87	108	+21

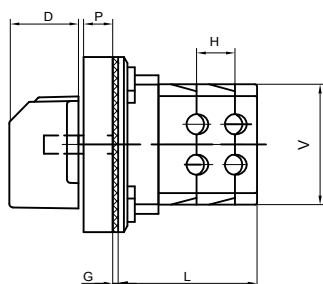


CAM SWITCHES S ... JDG

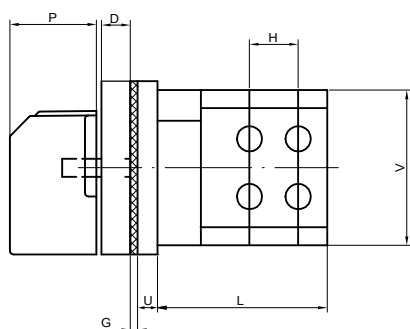
- Switch with frontal plate and rubber insulation for IP65

	S 6 - 10JDG	S 16 - 40JDG	S 63 - 160JDG
A - Fixation by two self tapping screws	D3,5	D4	D4
B- Fixation by two bolts and nuts	M3	M4	M5

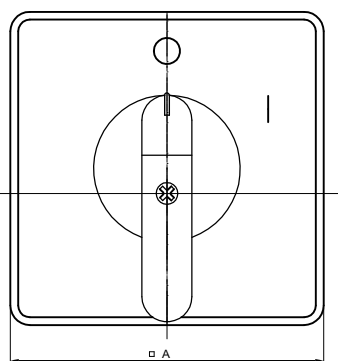
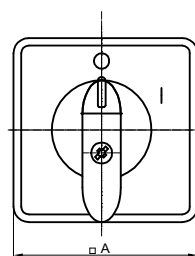
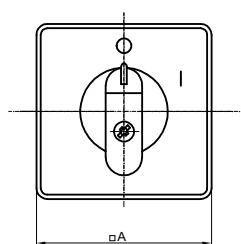
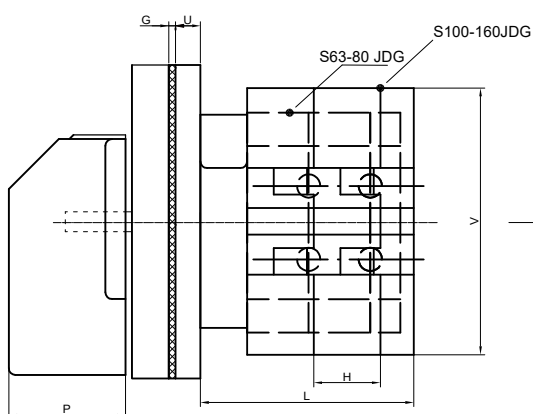
S 6, 10 JDG



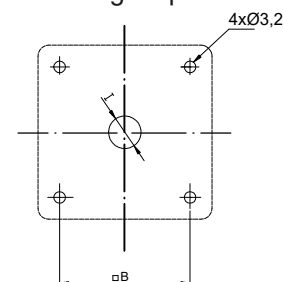
S 16, 25, 32, 40 JDG



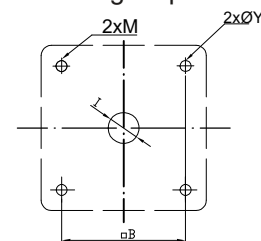
S 63,80, 100, 125, 160 JDG



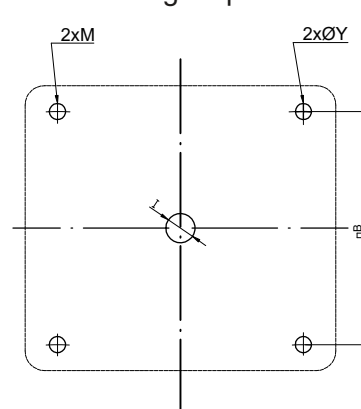
mounting on panel



mounting on panel



mounting on panel



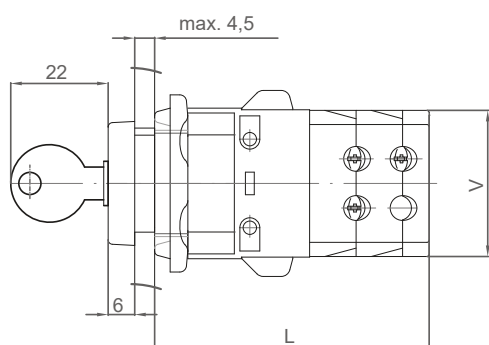
Type	A	B	D	G	H	I	M	P	U	V	Y	L for No. of chambers (max. 12)				Each additional cam chamber
												1	2	3	4	
S6,10 JDG	48	36	8	1,5	10,5	9	-	19	5,5	33	3,2	27,5	38	48,5	59	+10,5
S16,25 JDG	48	36	8	1,5	13,5	9	M4	24	5,5	43	3,2	33,5	47	60,5	74	+13,5
S32,40 JDG	66	36	8	1,5	16	9	M4	24	7,5	53	4,2	37,5	53,5	69,5	85,5	+16
S63,80 JDG	94	75	11	2	18,5	10	M5	35	7,5	66	4,2	42	60,5	79	97,5	+18,5
S100-160 JDG	94	75	1	2	21	10	M5	35	7,5	85	4,2	45	66	87	108	+21

CAM SWITCHES S ... JK / JKD

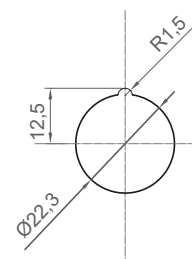
- Central fastening cam switch to the $\varnothing 22$ mm diameter hole using bayonet mechanism
- Control by key



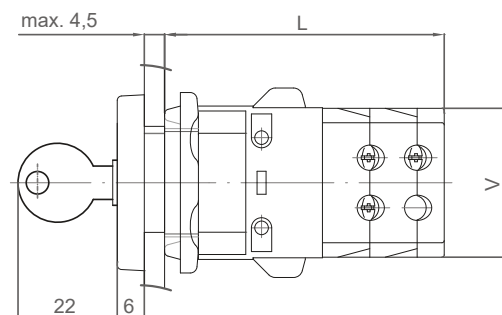
S 6, 10 JK



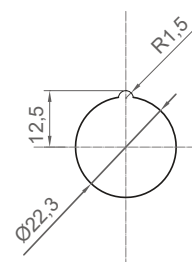
fixing hole



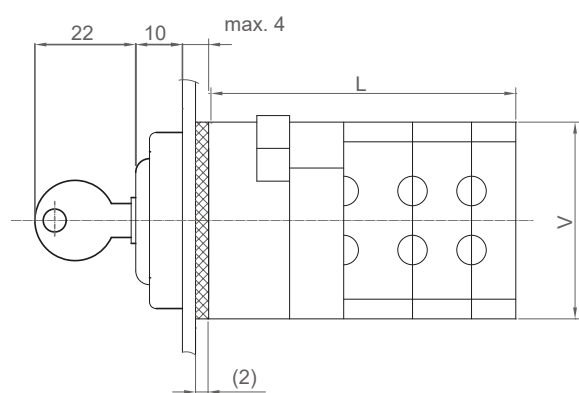
S 6, 10 JKD



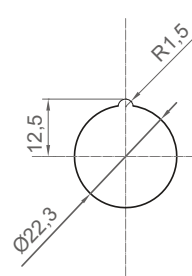
fixing hole



S 16, 25 JKD



fixing hole



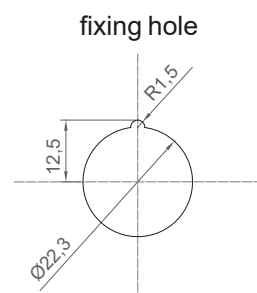
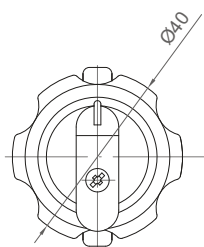
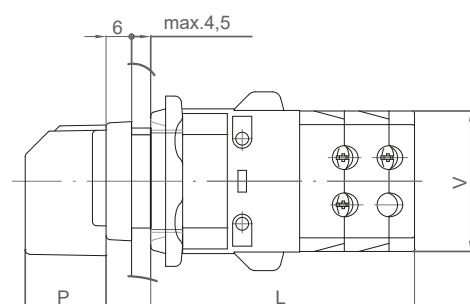
Type	L (mm) for No. of chambers											
No of chambers	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10 JK / JKD	51,5	62	73,5	84	94,5	106	107,5	108	118,5	129	139,5	150
S 16, 25 JKD	54,5	68	81,5	95	108,5	112	135,5	149	162,5	176	189,5	203

CAM SWITCHES S ... JR / JRD

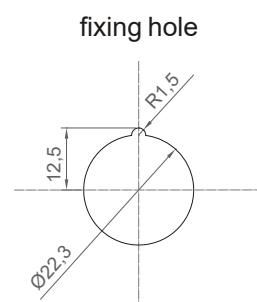
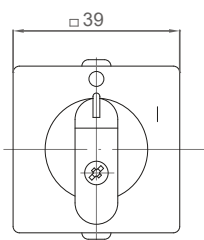
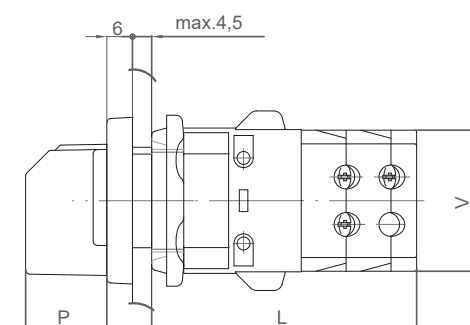


- Central fixing of the switch to the hole of $\varnothing 22$ mm diameter, JRG : JR + rubber seal G
- Control by lever

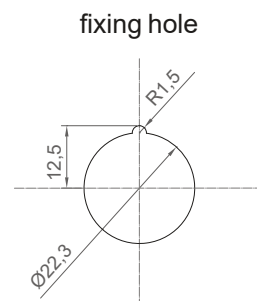
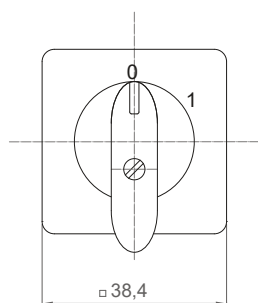
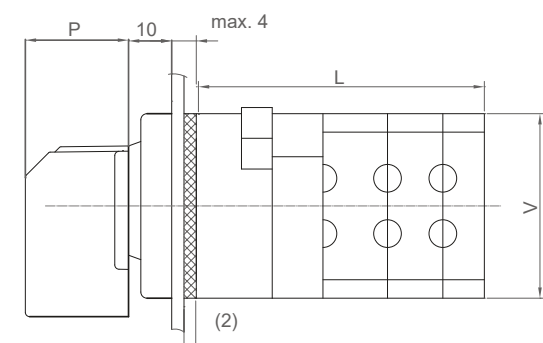
S 6, 10 JR



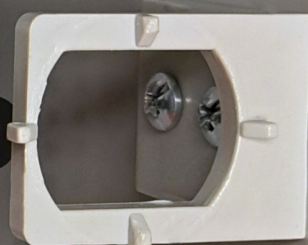
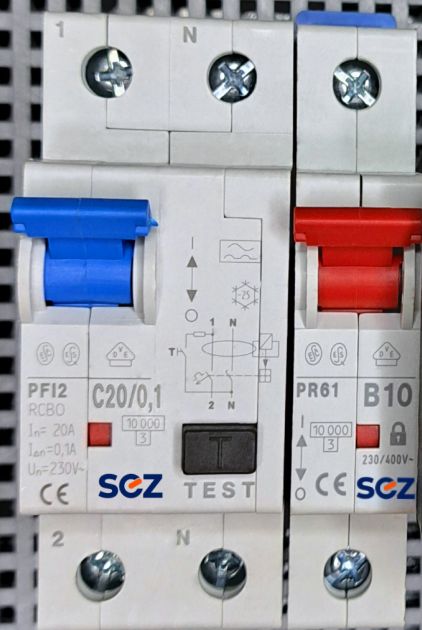
S 6, 10 JRD



S 16, 25 JRD



Type	L (mm) for No. of chambers											
No of chambers	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10 JR / JRD	51,5	62	73,5	84	94,5	106	107,5	108	118,5	129	139,5	150
S 16, 25 JRD	54,5	68	81,5	95	108,5	112	135,5	149	162,5	176	189,5	203



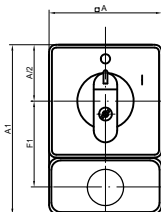
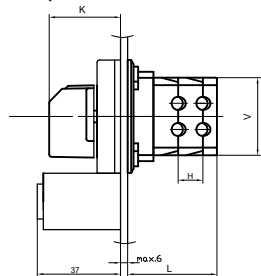


CAM SWITCHES S ... JT

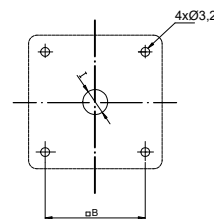
- Switch with lever and frontal plate
- Switch with push button which blocks lever in zero position

button: **G** - green
R - red
Y - yellow
 without marking - black

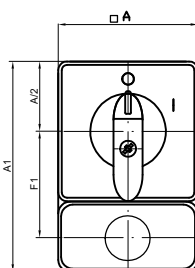
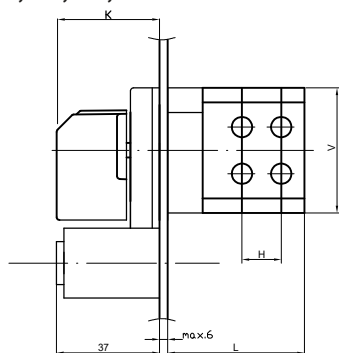
S 6, 10 JT



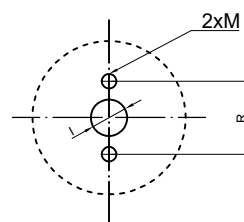
mounting on panel



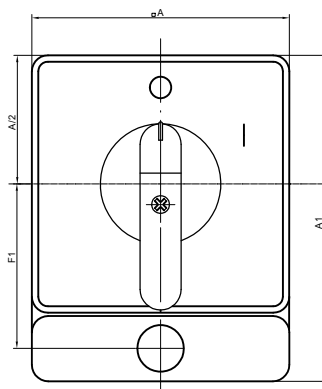
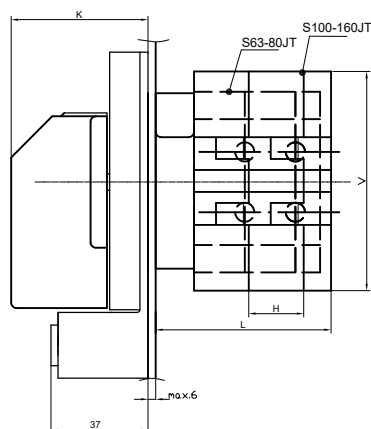
S 16, 25, 32, 40 JT



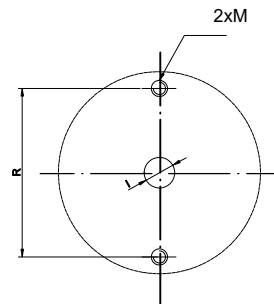
mounting on panel



S 63, 80, 100, 125, 160 JT



mounting on panel



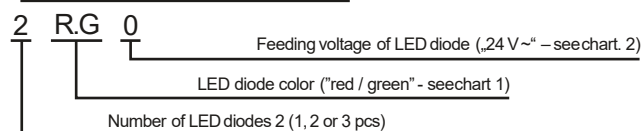
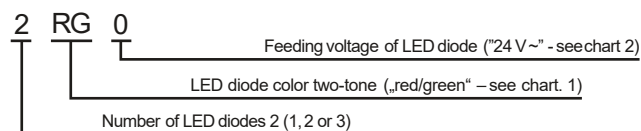
Type	A	A1	B	F1	I	H	K	M	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
											1	2	3	4	
S6,10 JT	48	72	36	35	9	10,5	30	-	30	33	27,5	38	48,5	59	+10,5
S16,25 JT	48	72	36	35	9	13,5	35	M4	30	43	33,5	47	60,5	74	+13,5
S32,40 JT	48	119	36	58	9	16	35	M4	30	53	37,5	53,5	69,5	85,5	+16
S63,80 JT	94	119	75	58	10	18,5	50	M5	50	66	42	60,5	79	97,5	+18,5
S100-160 JT	94	119	75	58	10	21	50	M5	50	85	45	66	87	108	+21

CAM SWITCHES S ... JF / JZF

- Switch with light alarm in selected position

Specification of LED diode

3 or 4-character code, at the end of the technical specification of switch (see „Order sheet example“)



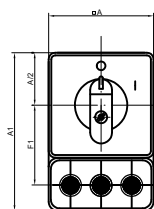
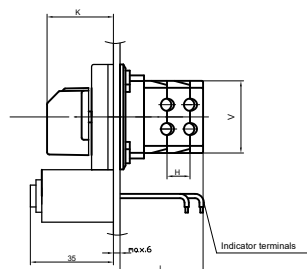
Color	Symbol
Red	R
Green	G
Orange	E
Yellow	Y

Specification of LED diode: Other possible combinations (2-color LED diode): RG, YG, EG, EY

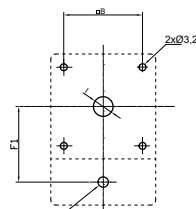
Voltage	24V	48V	60V	110V	230V
Alternative	0	1	2	3	4
Direct	5	6	7	8	9

Note.: LED diode constructors are connected to individual terminals at the end of the switch, other requirements, please consult with manufacturer.

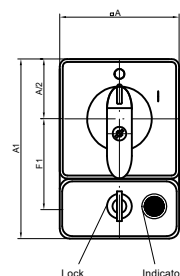
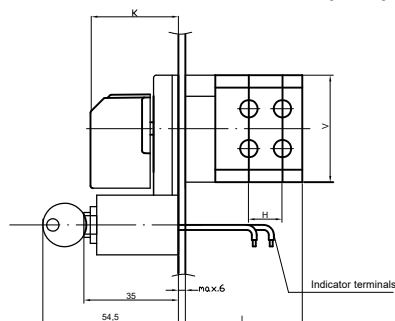
S 6, 10 JF



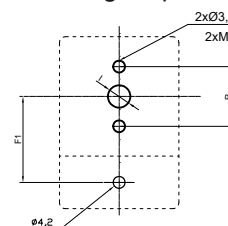
mounting on panel



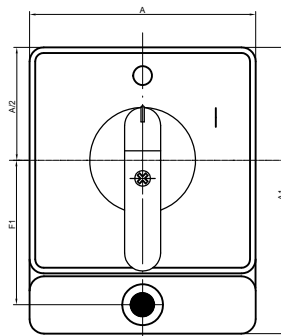
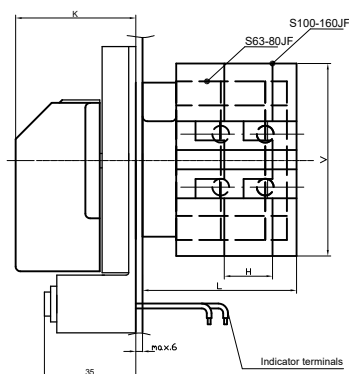
S 16, 25, 32, 40 JF (JZF)



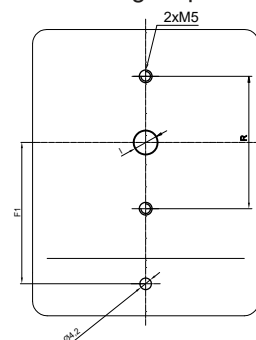
mounting on panel



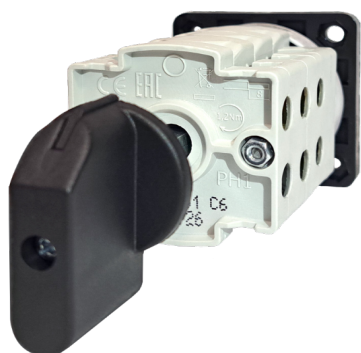
S 63, 80, 100, 125, 160 JZF



mounting on panel



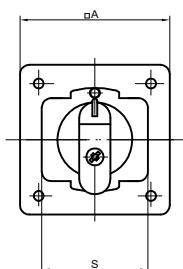
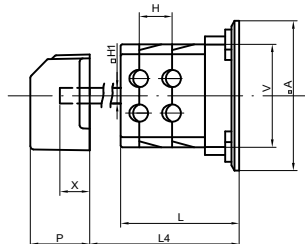
Type	A	A1	B	F1	I	H	K	R	V	L for No. of chambers (max. 12)				Each additional cam chamber
										1	2	3	4	
S6,10 JF/JZF	48	72	36	35	9	10,5	30	30	33	27,5	38	48,5	59	+10,5
S16,25 JF/JZF	48	72	36	35	9	13,5	35	30	43	33,5	47	60,5	74	+13,5
S32,40 JF/JZF	48	119	36	58	9	16	35	30	53	37,5	53,5	69,5	85,5	+16
S63,80 JF/JZF	94	119	75	58	10	18,5	50	50	66	42	60,5	79	97,5	+18,5
S100-160 JF/JZF	94	119	75	58	10	21	50	50	85	45	66	87	108	+21



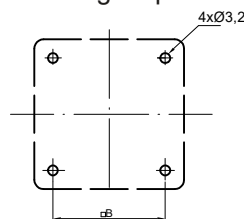
CAM SWITCHES S ... JO

- Switch with rear fixing

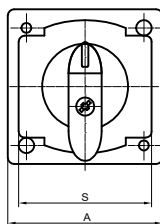
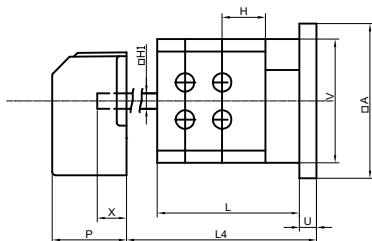
S 6, 10 JO



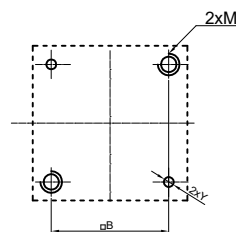
mounting on panel



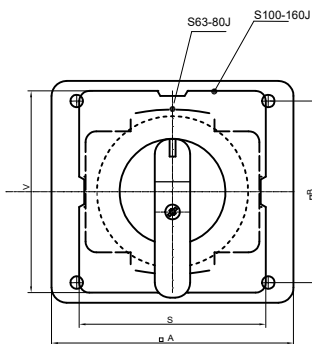
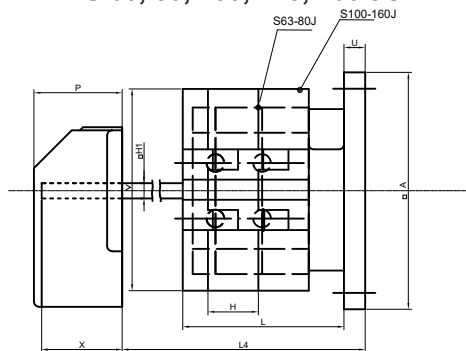
S 16, 25, 32, 40 JO



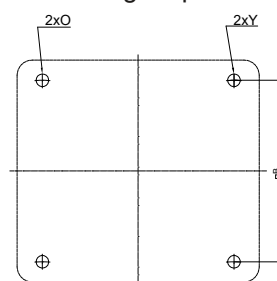
mounting on panel



S 63, 80, 100, 125, 160 JO



mounting on panel



Type	A	B	H	I	M	O	P	S	H1	U	V	X	Y
S6,10 JO	48	36	10,5	9	-	3	19	34	5	5,5	33	15	3,2
S16,25 JO	48	36	13,5	9	M4	3	24	43	5	5,5	43	19	4,2
S32,40 JO	48	36	16	9	M4	3	24	56	5	7,5	53	19	4,2
S63,80 JO	94	75	18,5	10	M5	4	35	66	6	7,5	66	34,5	5,4
S100-160 JO	94	75	21	10	M5	4	35	77	6	7,5	85	34,5	5,4

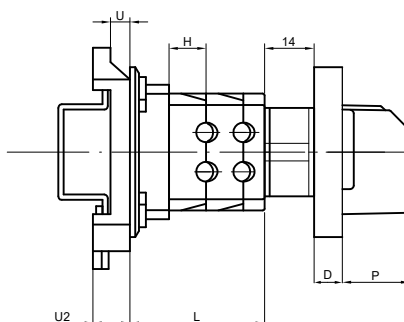
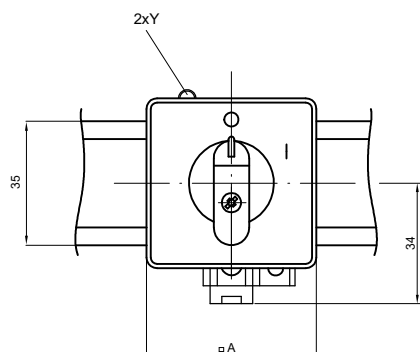
Type	L/L4 depending on the No. of chambers											
	1	2	3	4	5	6	7	8	9	10	11	12
S6,10 JO	27,5/70	38/70	48,5/70	59/70	69,5/112	80/112	90,5/112	101/112	111,5/154	122/154	132,5/154	143/154
S16,25 JO	33,5/62	47/62	60,5/76	74/130	87,5/130	101/130	114,5/130	128/197,5	141,5/197,5	155/197,5	168,5/197,5	182/197,5
S32,40 JO	37,5/112	53,5/112	69,5/112	85,5/112	101,5/169	117,5/169	133,5/169	149,5/253	165,5/253	181,5/253	197,5/295	213,5/295
S63,80 JO	42/115	60,5/115	79/115	97,5/115	116/172	134,5/172	153/172	171,5/256	190/256	208,5/256	227/298	245,5/298
S100-160 JO	45/115	66/115	87/115	108/172	129/172	150/172	171/256	192/256	192/256	234/256	255/298	276/298

CAM SWITCHES S ... JLD

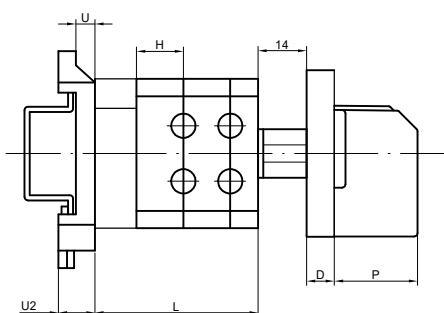
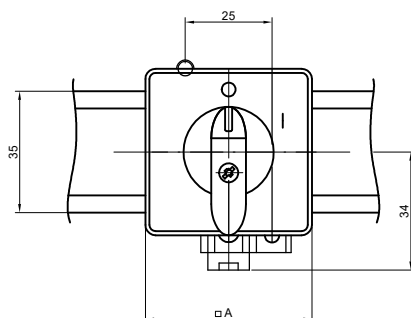
- Switch mounted on rail TH 35 - 7,5 with frontal plate
- Execution JL with lever, without frontal plate



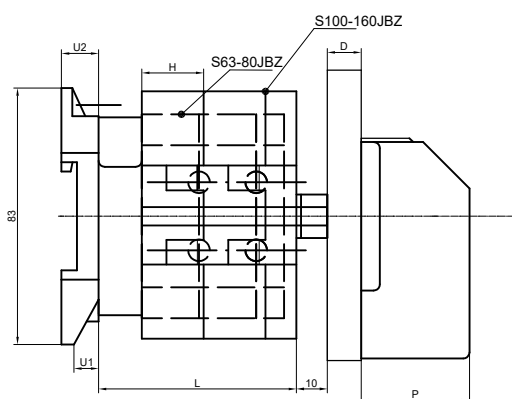
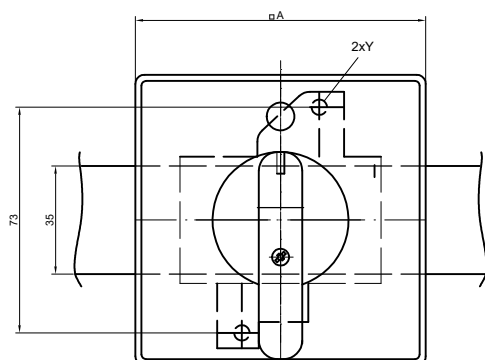
S 6,10 JLD



S 16,25,32,40 JLD



S 63,80,100,125,160 JLD



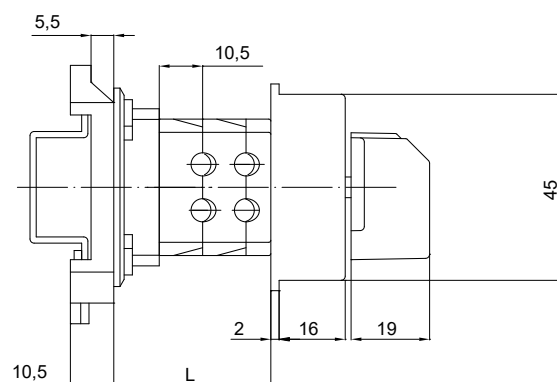
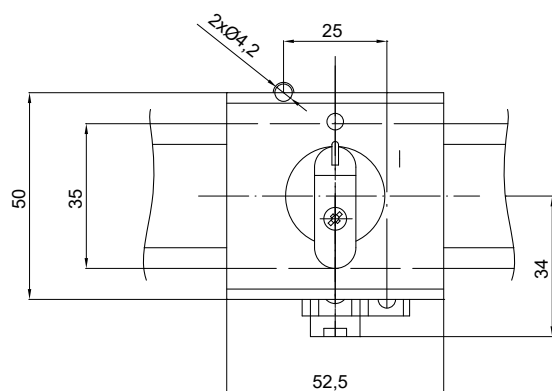
Type	A	D	H	P	U	U1	U2	L for No. of chambers (max. 12)				Each additional cam chamber
								1	2	3	4	
S6,10 JLD	48	8	10,5	19	5,5	5,5	10,5	27,5	38	48,5	59	+10,5
S16,25 JLD	48	8	13,5	24	5,5	5,5	10,5	33,5	47	60,5	74	+13,5
S32,40 JLD	48	8	16	24	7,5	6,5	12	37,5	53,5	69,5	85,5	+16
S63,80 JLD	94	11	18,5	35	7,5	6,5	12	42	60,5	79	97,5	+18,5
S100-160 JLD	94	11	21	35	7,5	6,5	12	45	66	87	108	+21



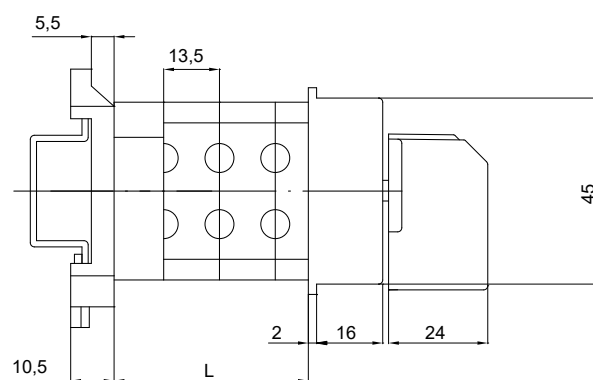
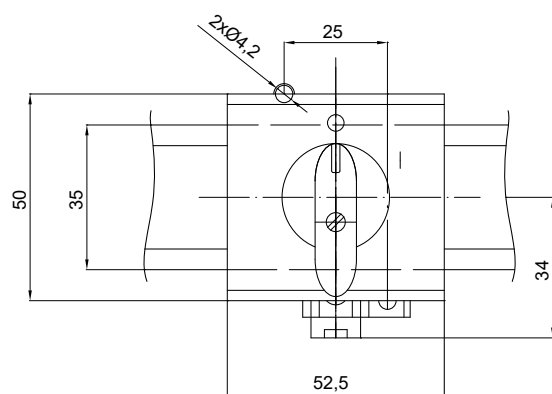
CAM SWITCHES S ... JLS

- Switch mounted on rail TH 35 - 7,5 with label
- Execution JL with lever, without label

S6, 10 JLS



S16, 25 JLS



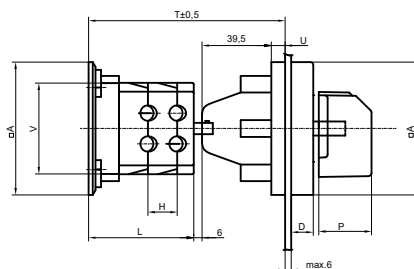
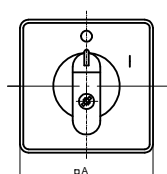
Type	L (mm) for No. of chambers											
No of chambers	1	2	3	4	5	6	7	8	9	10	11	12
S 6, 10 JLS	39	52,5	66	79,5	93	106,5	120	133,5	147	160,5	174	187,5
S 16, 25 JLS	27,5	38	48,5	59	69,5	80	90,5	101	111,5	122	132,5	143

CAM SWITCHES S ... JBD

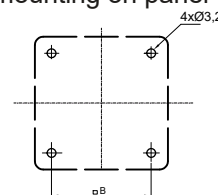
- Switch with rear fixing of the control element with frontal plate in the door
- Execution JB only with lever, without frontal plate
- Possibility to deliver also shaft of different length - dimension T according to customer's requirements



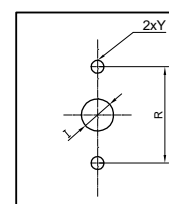
S 6, 10 JBD



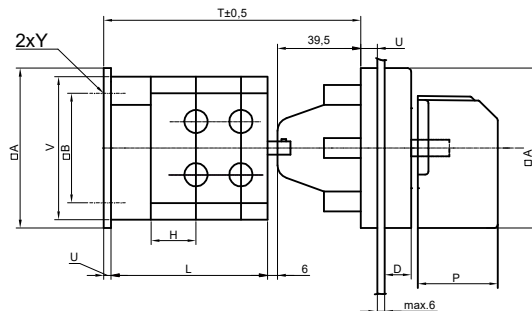
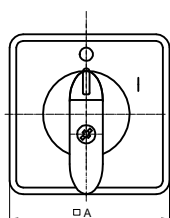
mounting on panel



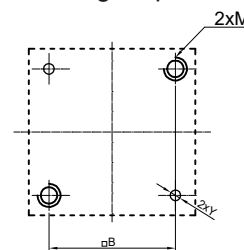
Operating element panel mounting



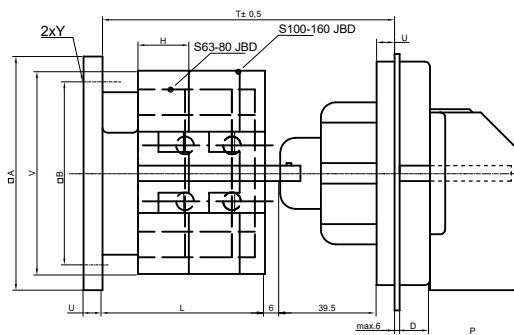
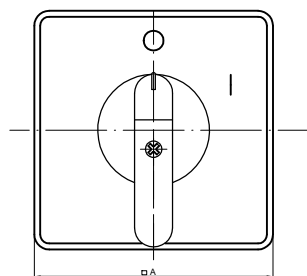
S 16, 25, 32, 40 JBD



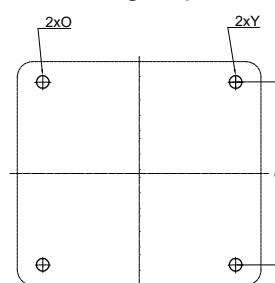
mounting on panel



S 63, 80, 100, 125, 160 JBD



mounting on panel



Type	A	B	D	H	I	M	P	R	U	V	Y
S6,10 JBD	48	36	8	10,5	9	-	19	30	5,5	33	3,2
S16,25 JBD	48	36	8	13,5	9	M4	24	30	5,5	43	4,2
S32,40 JBD	48	36	8	16	9	M4	24	30	7,5	53	4,2
S63,80 JBD	94	75	11	18,5	10	M5	35	50	7,5	66	5,4
S100-160 JBD	94	75	11	21	10	M5	35	50	7,5	85	5,4

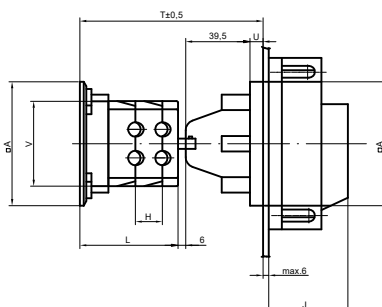
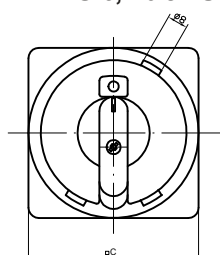
Type	L for No. of chambers (max. 12)				Each additional cam chamber	T for No. of chambers (max. 12)				Each additional cam chamber
	1	2	3	4		1	2	3	4	
S6,10 JBD	27,5	38	48,5	59	+10,5	84	94,5	105	115,5	+10,5
S16,25 JBD	33,5	47	60,5	74	+13,5	90	103,5	117	130,5	+13,5
S32,40 JBD	37,5	53,5	69,5	85,5	+16	98	114	130	146	+16
S63,80 JBD	42	60,5	79	97,5	+18,5	102,5	121	139,5	158	+18,5
S100-160 JBD	45	66	87	108	+21	105	126	147	168	+21



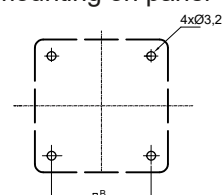
CAM SWITCHES S ... JBU

- Switch with rear fixing of the control element with lockable lever in the door
- Possibility to deliver also shaft of different length - dimension T according to customer's requirements

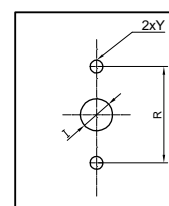
S 6, 10 JBU



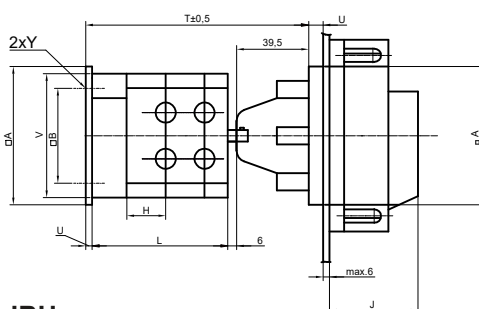
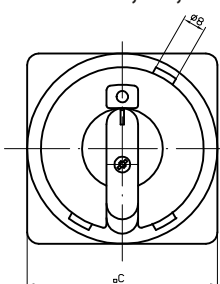
mounting on panel



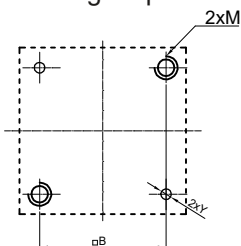
Operating element panel mounting



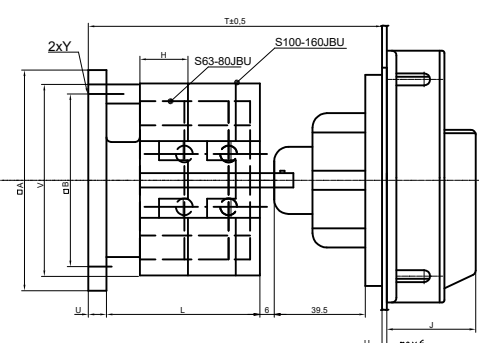
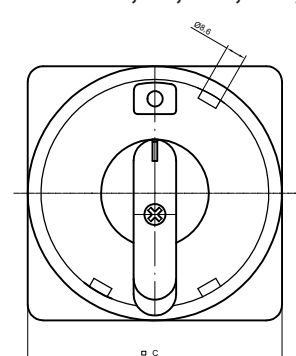
S 16, 25, 32, 40 JBU



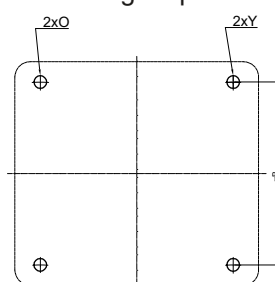
mounting on panel



S 63, 80, 100, 125, 160 JBU



mounting on panel



Type	A	B	C	H	I	J	M	R	U	V	Y
S6,10 JBU	48	36	66	10,5	9	31	-	30	5,5	33	3,2
S16,25 JBU	48	36	66	13,5	9	31	M4	30	5,5	43	4,2
S32,40 JBU	66	36	66	16	9	31	M4	30	7,5	53	4,2
S63,80 JBU	94	75	66	18,5	10	42	M5	50	7,5	66	5,4
S100-160 JBU	94	75	106	21	10	42	M5	50	7,5	85	5,4

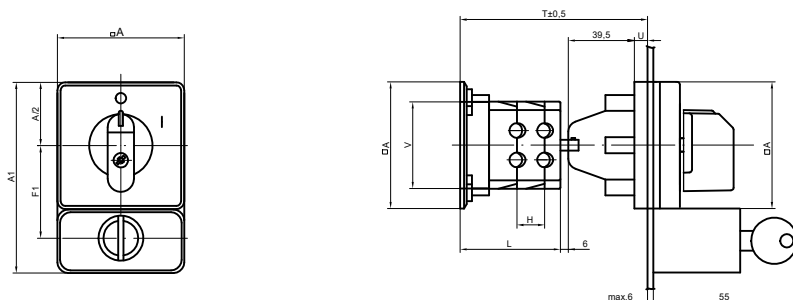
Type	L for No. of chambers (max. 12)				Each additional cam chamber	T for No. of chambers (max. 12)				Each additional cam chamber
	1	2	3	4		1	2	3	4	
S6,10 JBU	27,5	38	48,5	59	+10,5	84	94,5	105	115,5	+10,5
S16,25 JBU	33,5	47	60,5	74	+13,5	90	103,5	117	130,5	+13,5
S32,40 JBU	37,5	53,5	69,5	85,5	+16	98	114	130	146	+16
S63,80 JBU	42	60,5	79	97,5	+18,5	102,5	121	139,5	158	+18,5
S100-160 JBU	45	66	87	108	+21	105	126	147	168	+21

CAM SWITCHES S ... JBZ

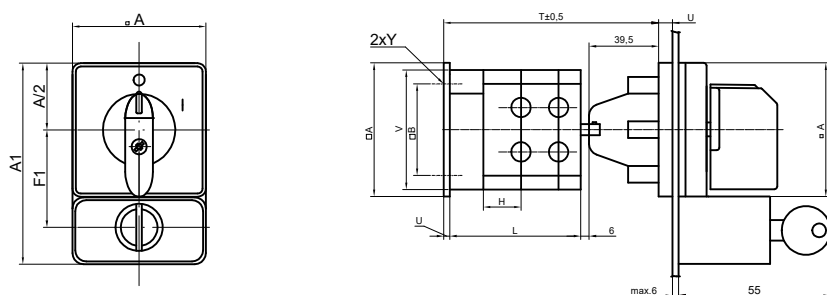
- Switch with rear fixing of the control element with propelling lock in the door with lock in „O“ position (other position cite)
- Possibility to deliver also shaft of different length - dimension T according to customer's requirements



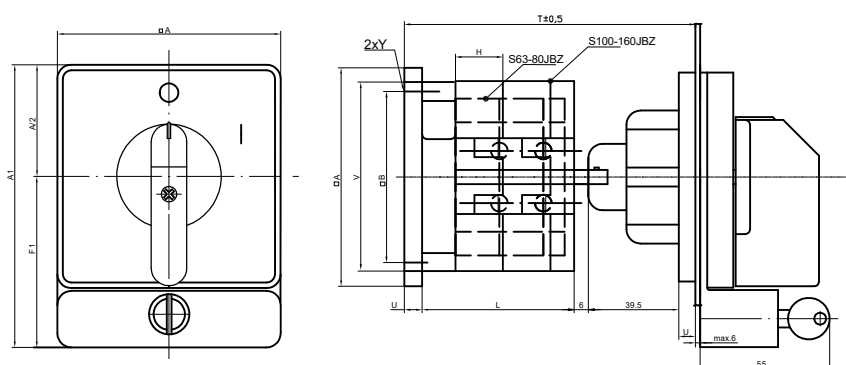
S 6, 10 JBZ



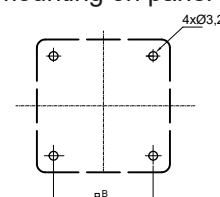
S 16, 25, 32, 40 JBZ



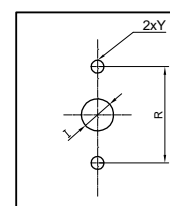
S 63, 80, 100, 125, 160 JBZ



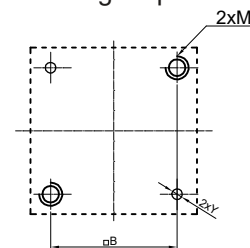
mounting on panel



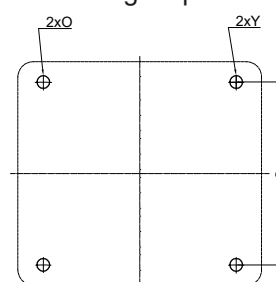
Operating element panel mounting



mounting on panel



mounting on panel



Type	A	A1	B	F1	H	I	M	R	U	V	Y
S6,10 JBZ	48	72	36	35	10,5	9	-	30	5,5	33	3,2
S16,25 JBZ	48	72	36	35	13,5	9	M4	30	5,5	43	4,2
S32,40 JBZ	48	119	36	58	16	9	M4	30	7,5	53	4,2
S63,80 JBZ	94	119	75	58	18,5	10	M5	50	7,5	66	5,4
S100-160 JBZ	94	119	75	58	21	10	M5	50	7,5	85	5,4

Type	L for No. of chambers (max. 12)				Each additional cam chamber	T for No. of chambers (max. 12)				Each additional cam chamber
	1	2	3	4		1	2	3	4	
S6,10 JBZ	27,5	38	48,5	59	+10,5	84	94,5	105	115,5	+10,5
S16,25 JBZ	33,5	47	60,5	74	+13,5	90	103,5	117	130,5	+13,5
S32,40 JBZ	37,5	53,5	69,5	85,5	+16	98	114	130	146	+16
S63,80 JBZ	42	60,5	79	97,5	+18,5	102,5	121	139,5	158	+18,5
S100-160 JBZ	45	66	87	108	+21	105	126	147	168	+21

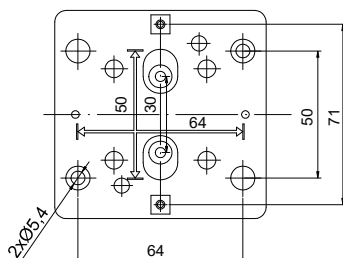
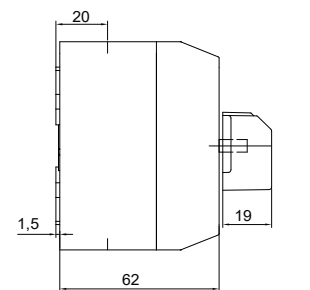
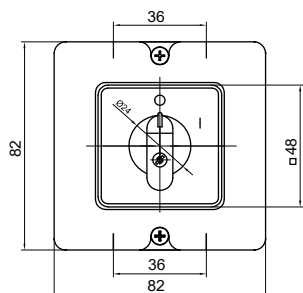
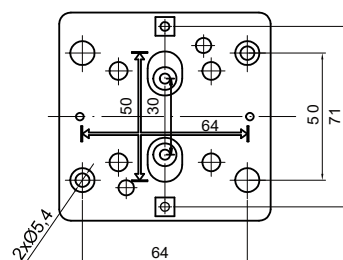
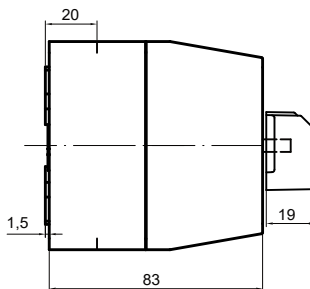
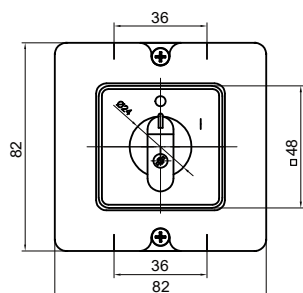


CAM SWITCHES S ... JPDM, S ... JPUM

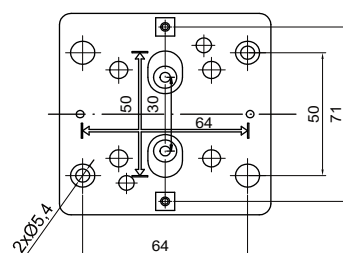
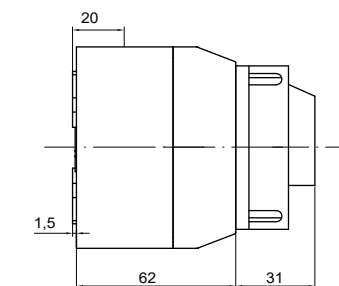
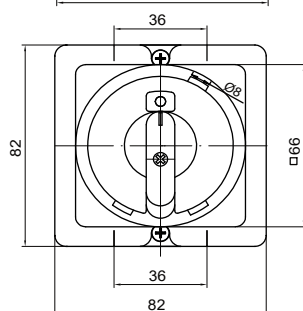
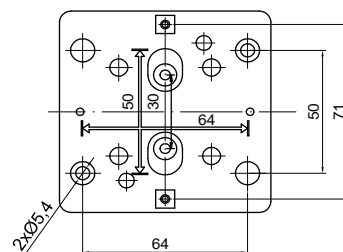
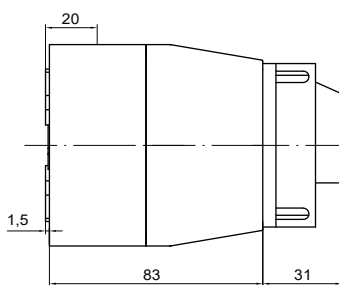
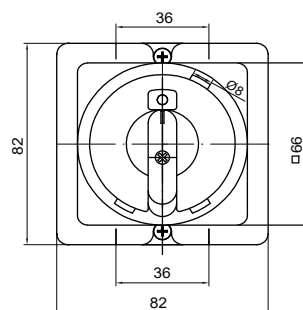
- Small plastic box with dimensions of 82x82x62 mm, or 82x82x83 mm with IP65 protection
- Box design for cam switch S6-10J, with 2 chambers with low lid, S6-10J with 4 chambers with higher lid
- Box design for cam switch S16-25J with 3 chambers with higher lid
- In the basic version offered as type JPD (with front panel)
- Switching angle 30°, 45°, 60°, 90°

- Comply with STN EN 60 947-3 (EN 60947-3, IEC 60 947-3, ČSN 60 947-3), STN EN 60 204-1
- Switches have access to terminals with screwdrivers at an angle of 45° and also improved readability of terminal markings on the tilted surface

S6-10 JPDM, S16-25 JPDM



S6-10 JPUM, S16-25 JPUM



CAM SWITCHES S ... JNPD, S ... JNPU

- Cam switch in a new plastic enclosure JNP,
dimensions 108 × 121 × 111 mm, protection rating IP65.

Available in mechanical version:

- with front panel and handle (JNPD)
- with lockable handle (JNPU)

Supplied with 2 cable glands:

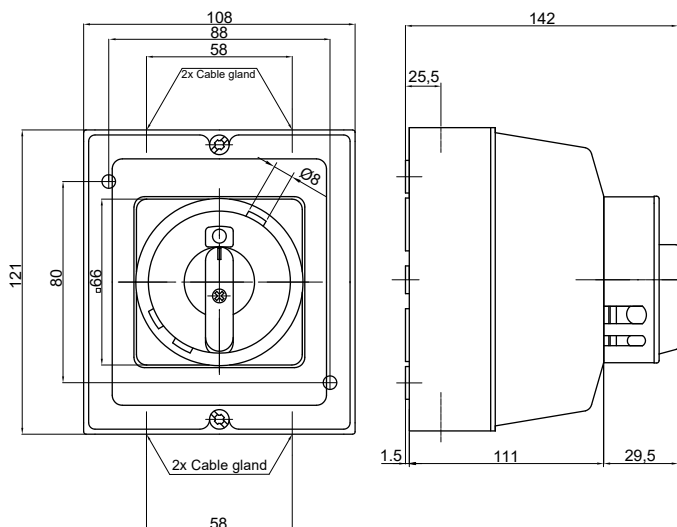
- M25 × 1.5 – for S32–40J
- M32 × 1.5 – for S63J and S80J

The enclosure can accommodate the following series switches:

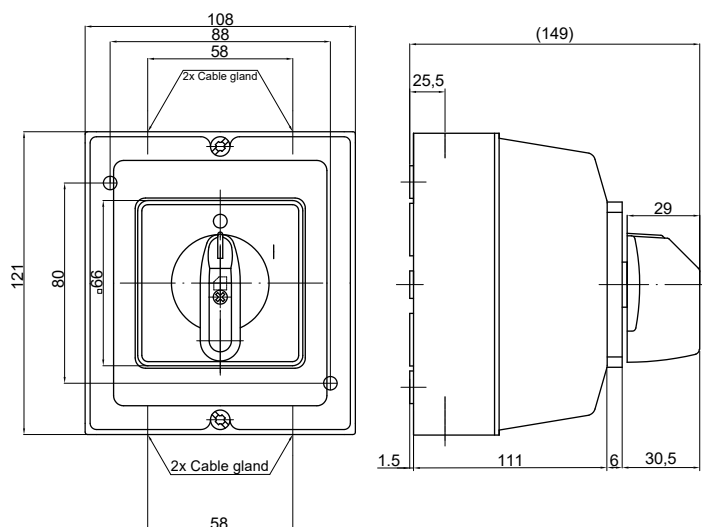
- S32–40J – up to 4 switching chambers
(Terminals max. 10 mm²)
- S63–80J – up to 3 switching chambers (Terminals max. 16 mm²)
- Complies with STN EN 60947-3 (EN 60947-3, IEC 60947-3, ČSN 60947-3), STN EN 60204-1
- Screwdriver access to terminals at a 45° angle and improved terminal marking readability on sloped surface
- Switching angles: 30°, 45°, 60°, 90°



S 32, 40, 63, 80 JNPU



S 32, 40, 63, 80 JNPD

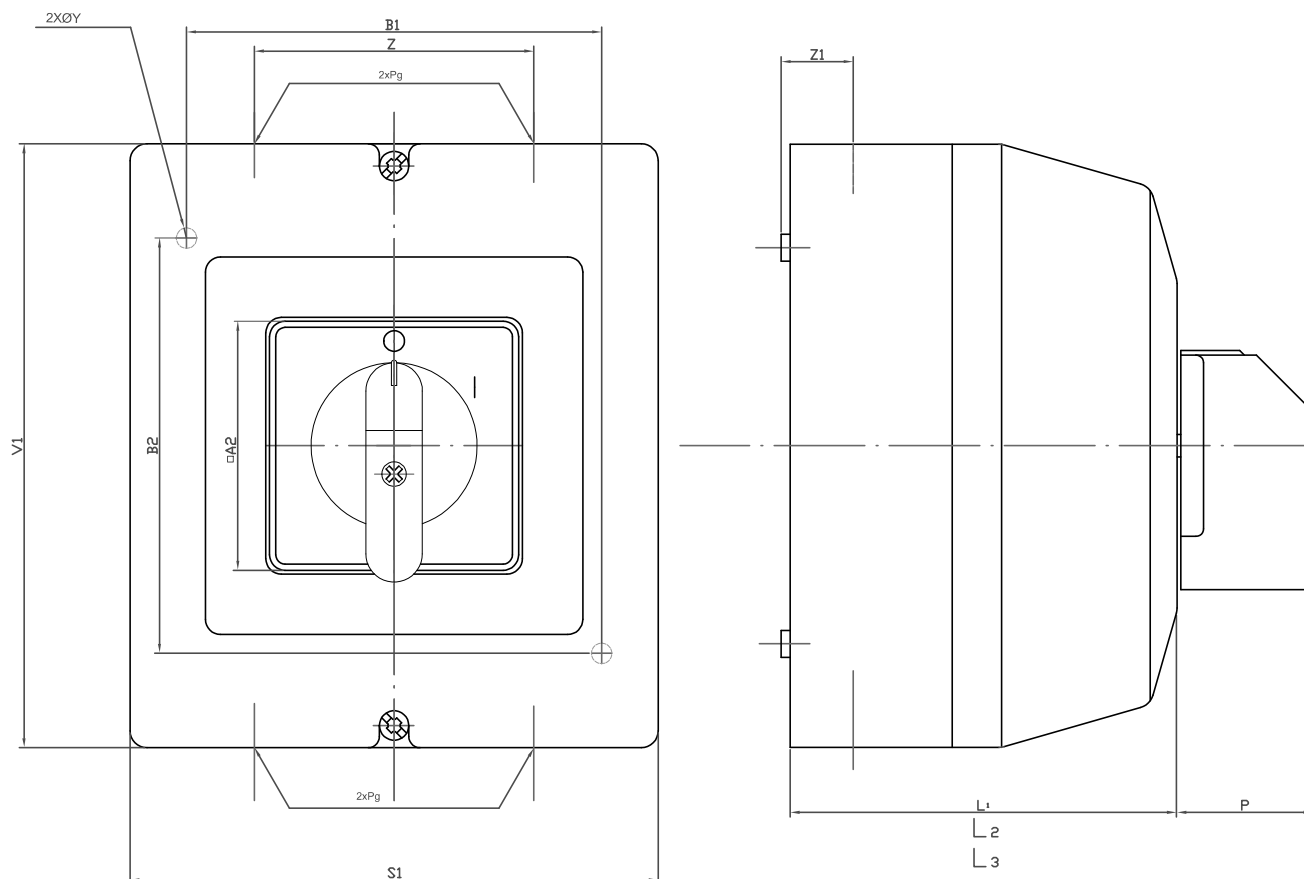




CAM SWITCHES S ... JPD

- Switch in the plastic enclosure with frontal plate - IP65
- Fixing with two screws M4 with washers (S6, 10, 16, 25) or M5 for S32, 40, 63, 80A
- Supplied including 2 cable glands:
Pg 16 - for S6J - S16J
Pg 21 - for S25J - S40J
Pg 29 - for S63J - S80J

S 6, 10, 16, 25, 32, 40, 63, 80 JPD



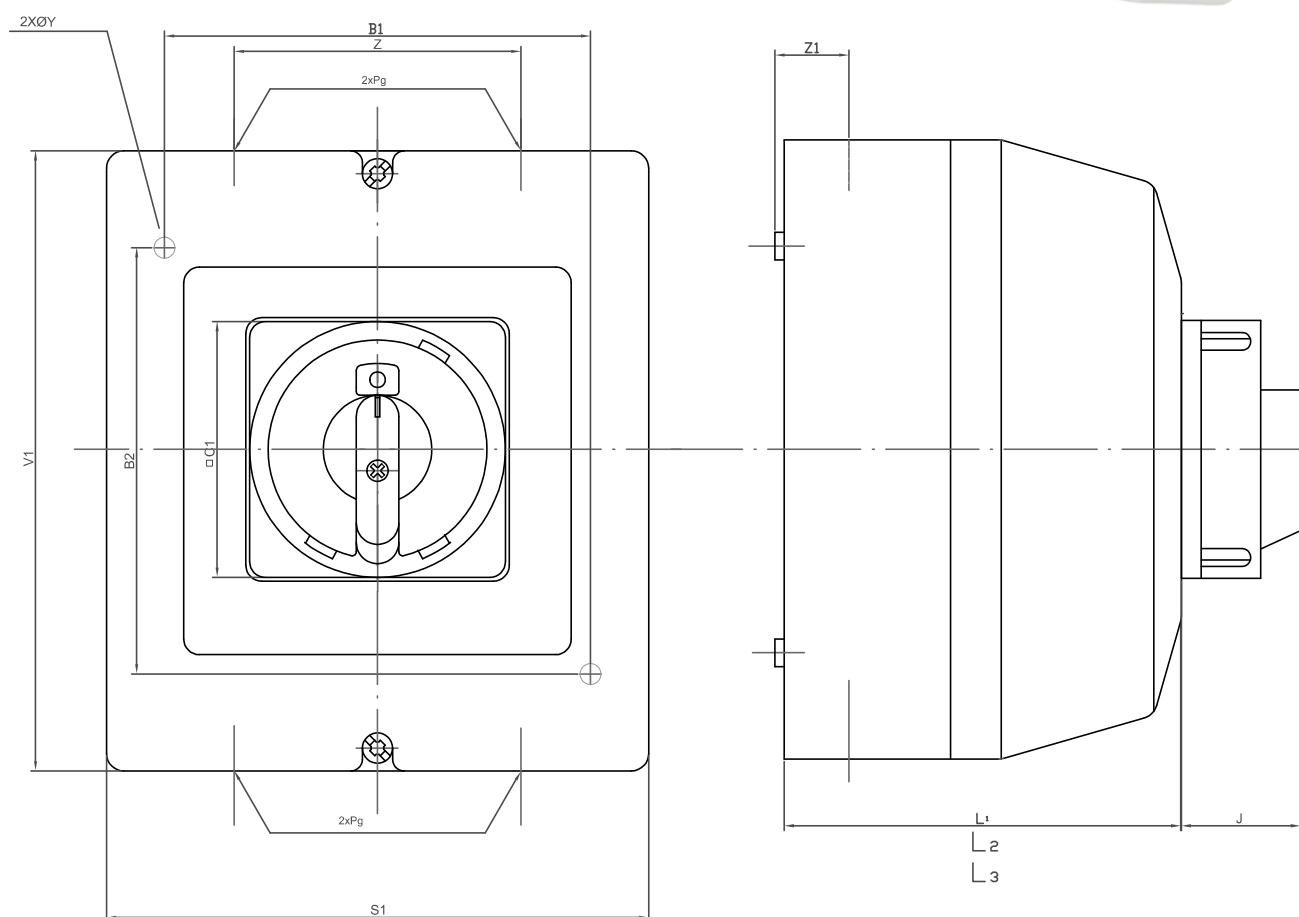
Type	A2	B1	B2	L1	L2	L3	P	S1	V1	Y	Z	Z1	Max. No. of chambers		
													L1	L2	L3
S6,10 JPD	48	66	73	86	100	159	19	87	110	3,2	46	22	3	4	9
S16,25 JPD	48	66	73	86	100	159	24	87	110	4,2	46	22	2	3	7
S32,40 JPD	66	110	110	108	140	-	24	140	160	4,2	46	30	2	4	-
S63,80 JPD	66	110	110	108	140	-	35	140	160	5,4	74	30	2	4	-

CAM SWITCHES S ... JPU

- Switch in the plastic enclosure with lockable handle with 3 padlock - IP65
- Fixing with two screws M4 with washers (S6, 10, 16, 25) or M5 for S32, 40, 63, 80A
- Supplied including 2 cable glands:
Pg 16 - for S6J - S16J
Pg 21 - for S25J - S40J
Pg 29 - for S63J - S80J



S 6, 10, 16, 25, 32, 40, 63, 80 JPU



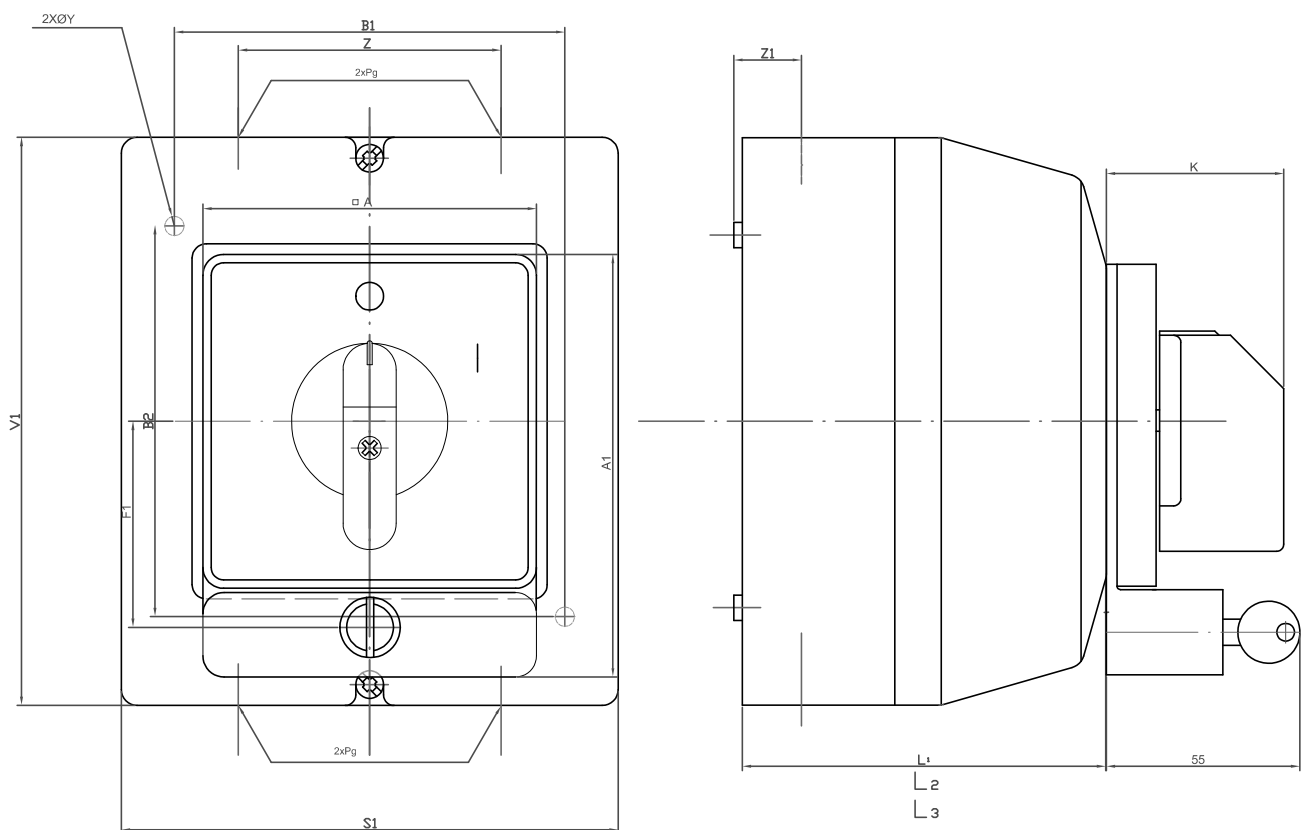
Type	A2	B1	B2	C1	L1	L2	L3	P	S1	V1	Y	Z	Z1	Max. No. of chambers		
														L1	L2	L3
S6,10 JPU	48	66	73	66	86	100	159	19	87	110	3,2	46	22	3	4	9
S16,25 JPU	48	66	73	66	86	100	159	24	87	110	4,2	46	22	2	3	7
S32,40 JPU	66	110	110	106	108	140	-	24	140	160	4,2	46	30	2	4	-
S63,80 JPU	66	110	110	106	108	140	-	35	140	160	5,4	74	30	2	4	-



CAM SWITCHES S ... JPZ

- Switch in a plastic enclosure with a FAB lock – IP65
- Base mounting with two M4 screws for S6, S10, S16 and S25, or two M5 screws for S32, S40, S63 and S80
- Supplied complete with two cable glands:
Pg 16 – for S6J to S16J
Pg 21 – for S25J to S40J
Pg 29 – for S63J to S80J

S 6, 10, 16, 25, 32, 40, 63, 80 JPZ



Type	A	A1	B1	B2	F1	K	L1	L2	L3	S1	V1	Y	Z	Z1	Max. No. of chambers		
															L1	L2	L3
S6,10 JPZ	48	72	66	73	35	30	86	100	159	87	110	3,2	46	22	3	4	9
S16,25 JPZ	48	72	66	73	35	35	86	100	159	87	110	4,2	46	22	2	3	7
S32,40 JPZ	48	119	110	110	58	35	108	140	-	140	160	4,2	46	30	2	4	-
S63,80 JPZ	94	119	110	110	58	50	108	140	-	140	160	5,4	74	30	2	4	-

S6 - 25 JPDM



S6 - 25 JPD



S32 - 80 JNPD



S32 - 80 JPD



S6 - 25 JPUM



S6 - 25 JPU



S32 - 80 JNPU



S32 - 80 JPU



S6 - 25 JPZ



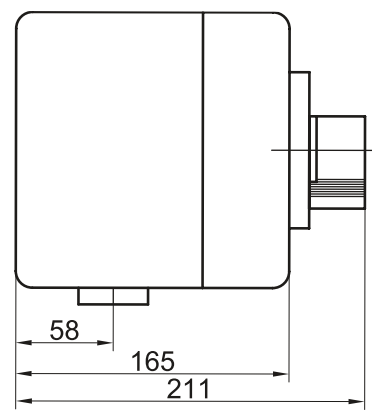
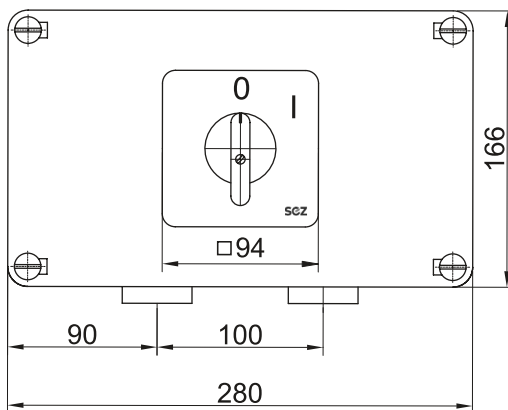
S63 - 80 JPZ



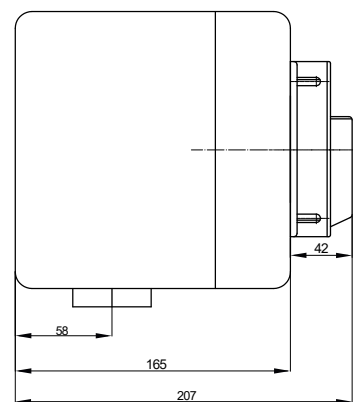
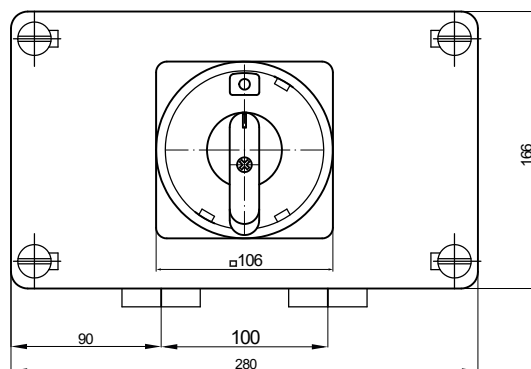
CAM SWITCHES S100 JPD, JPU, JPZ

- Switch in a plastic enclosure with a front plate (JPD), with a lever lockable by 3 padlocks (JPU), with a FAB cylinder lock (JPZ) - IP 54
- Switches up to 3 levels are in the JP enclosure (dimensions 280x160x165 mm)

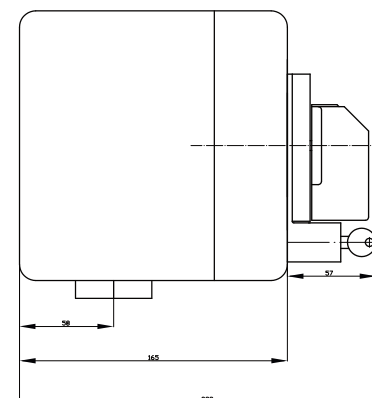
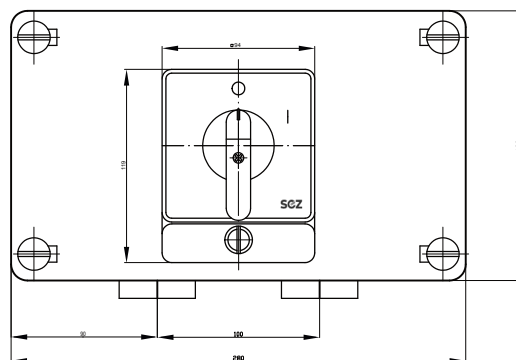
Enclosure type JPD



Enclosure type JPU



Enclosure type JPZ



S125 -160 JPD in PVT F 3030 NAF enclosure



CAM SWITCHES S125 - 160 PVT F 3030

- Switch in a plastic enclosure with a front plate (JPD), with a lever lockable by 3 padlocks (JPU), with a FAB lamella lock (JPZ) - IP54
- In the PVT F3030 NAF enclosure (dimensions: 300x300x171 mm), it is possible to install a cam switch of size S100-160J up to a maximum of 5 levels.
- The delivery includes 2 cable glands Pg 36 and also terminals for connecting PE and N conductors.

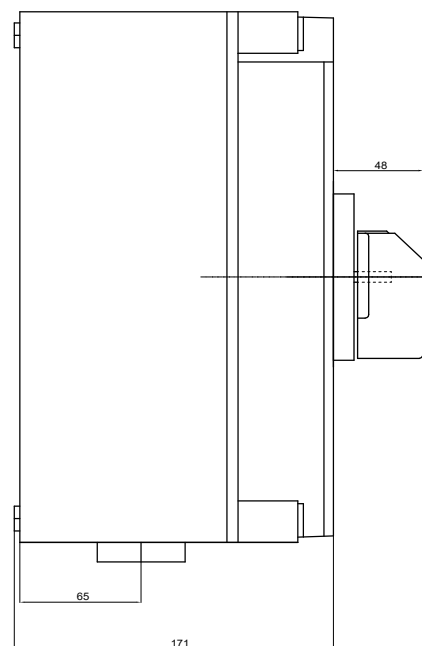
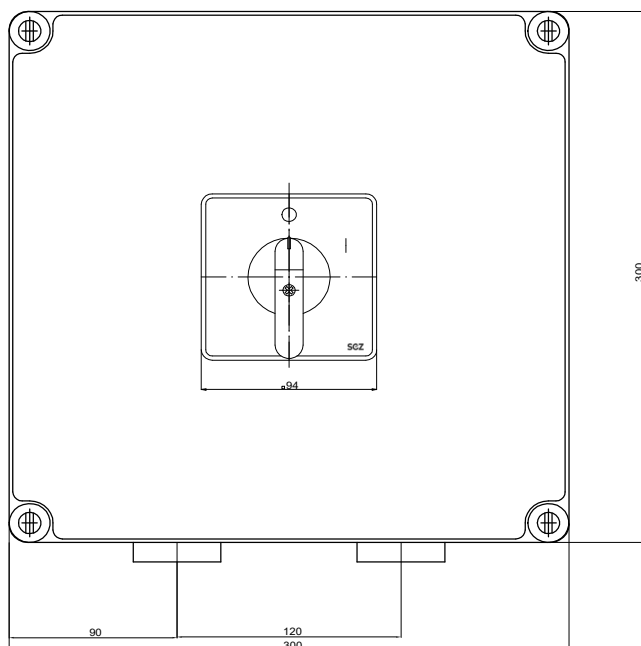
S125 -160 JPU in PVT F 3030 NAF enclosure



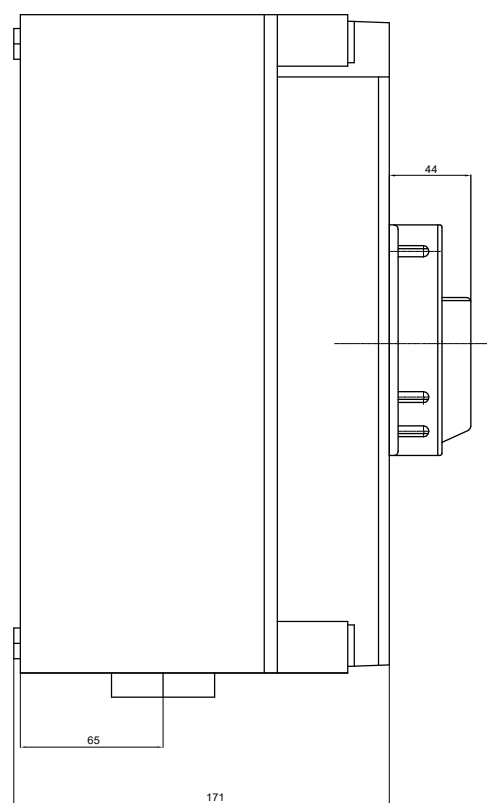
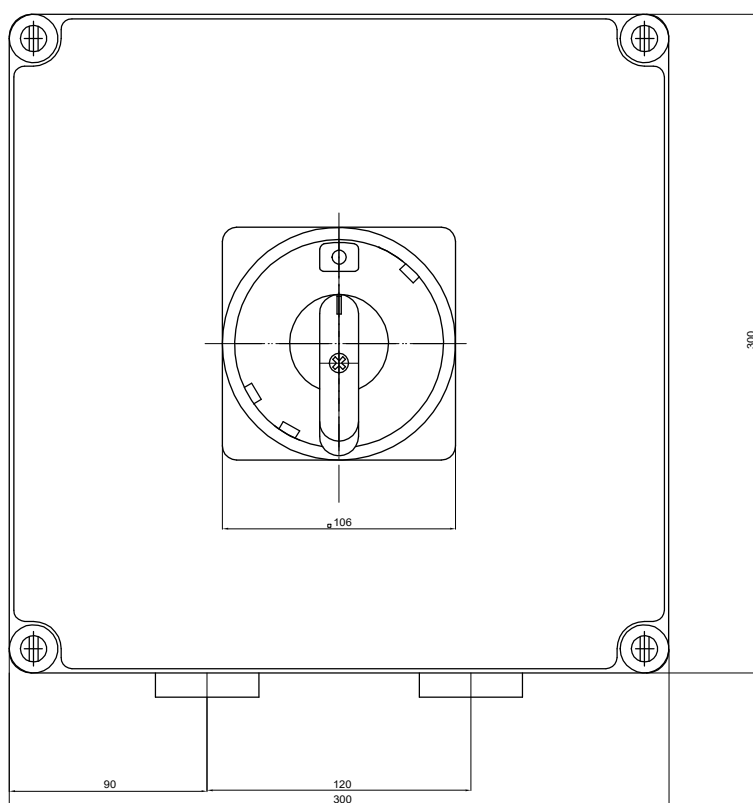
S125 -160 JPZ in PVT F 3030 NAF enclosure



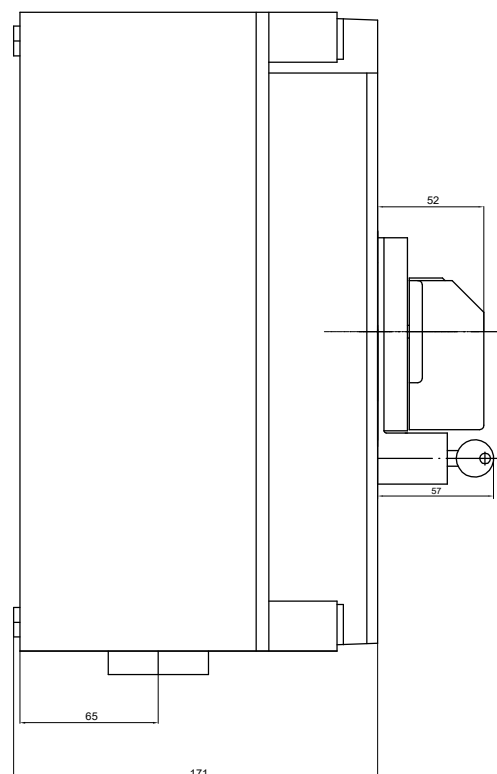
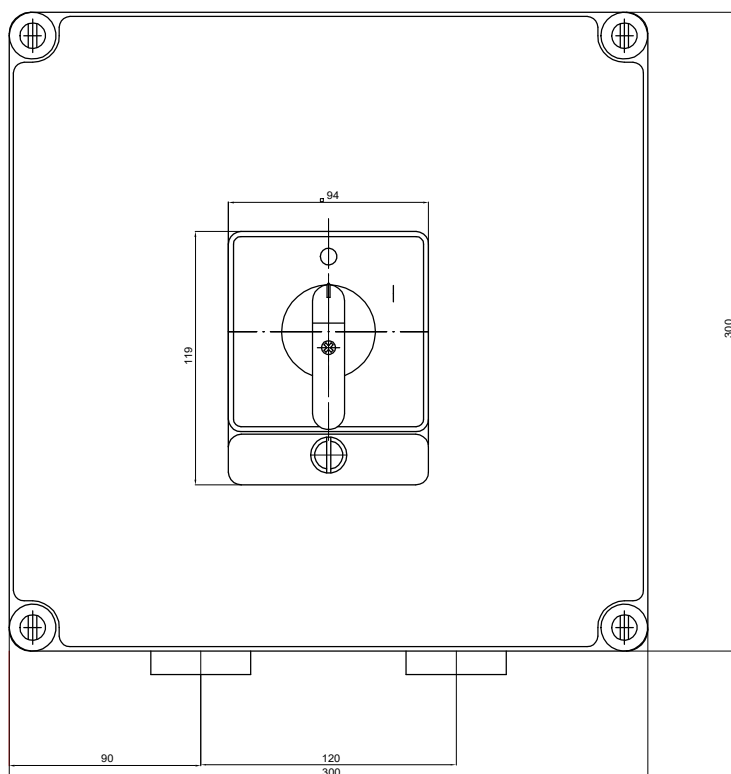
S125 -160 JPD in PVT F 3030 NAF enclosure



S125 -160 JPU in PVT F 3030 NAF enclosure

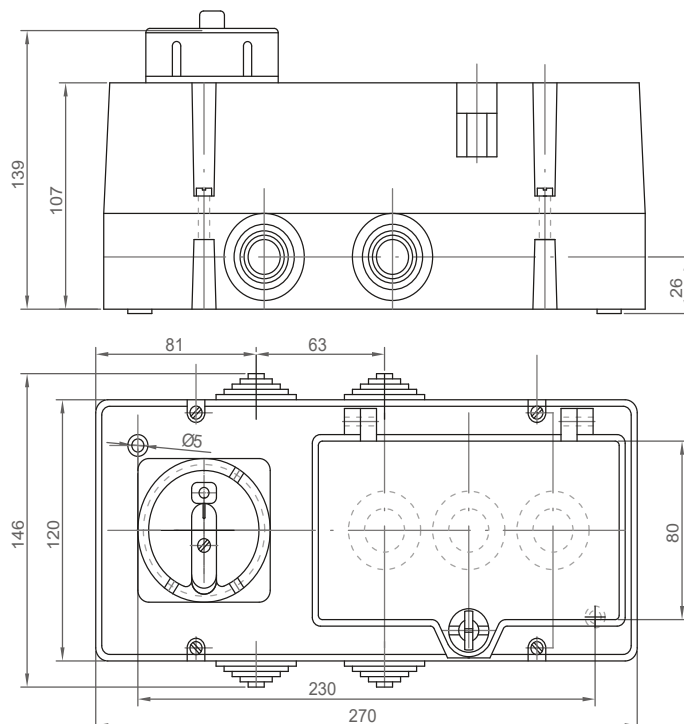
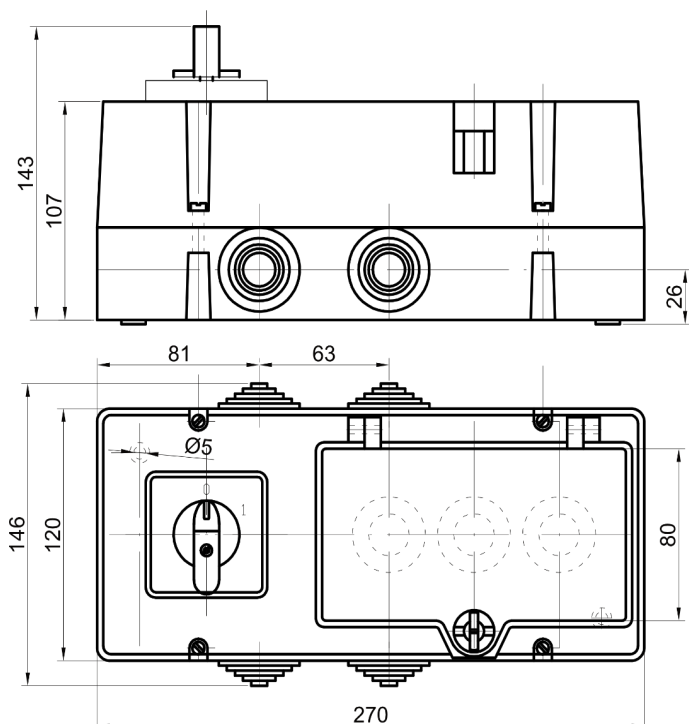
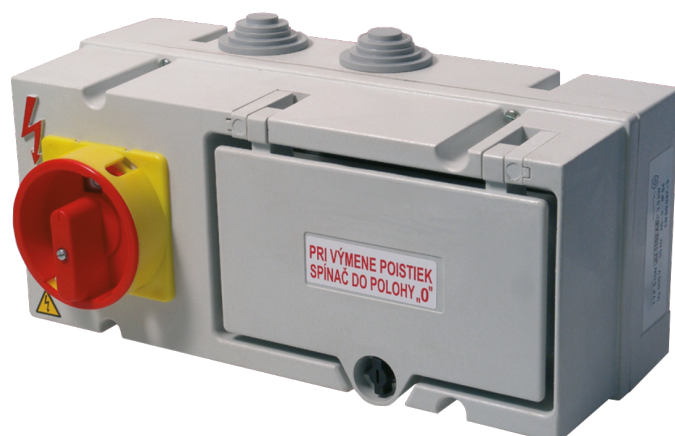


S125 -160 JPZ in PVT F 3030 NAF enclosure



CAM SWITCHES S 16, 25 NJD, NJU, NJZ, NJZE

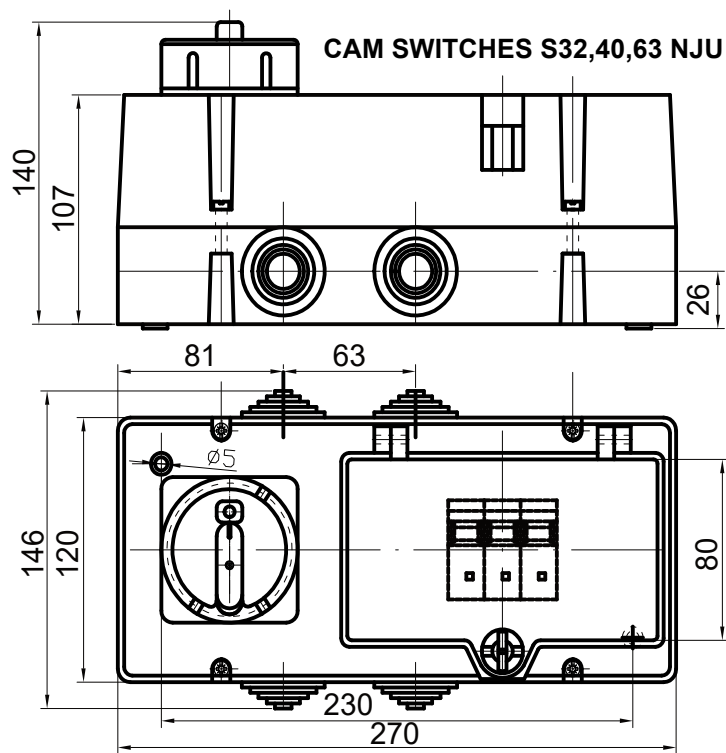
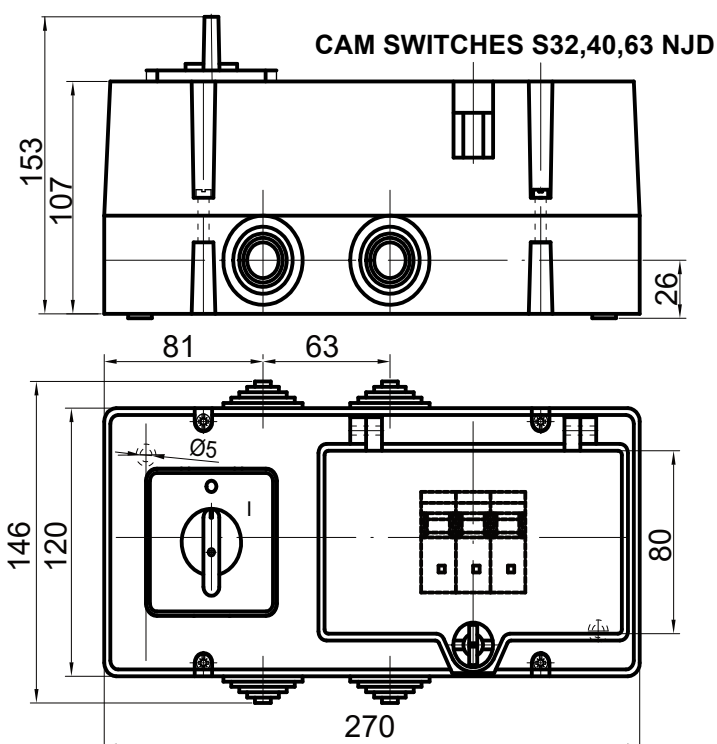
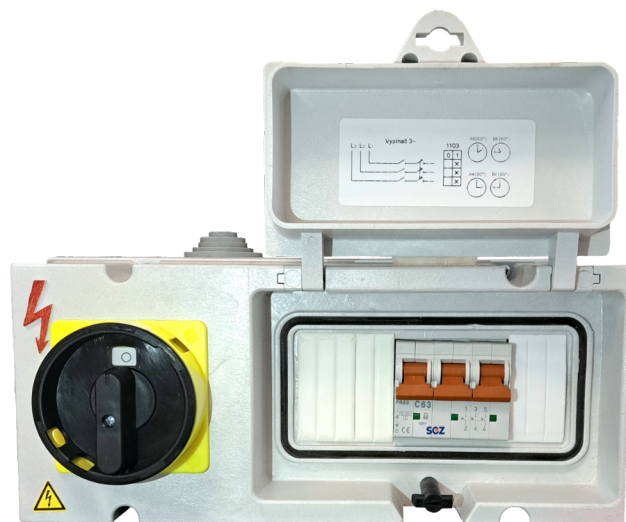
- Switch in a plastic enclosure combined with 3 fuses (E27) with terminals for connection of neutral and protective conductors - IP54
- S..NJD - with a lever and front plate
- S...NJU - with a lever for locking with 3 padlocks
- S...NJZ - with a lever and locking with a FAB cam lock
- S...NJZE - with a lever and locking with a EUROLOCK cam lock graduated sealing rubber bushings



CAM SWITCHES S 32, 40, 63 NJU, NJD

- Switch in a plastic enclosure, combined with a 3-pole MCB / RCBO (standardly with characteristic C) and terminals for connecting the neutral and protective conductor - IP54
- **S...NJD** - with a front panel and a lever
- **S...NJU** - with a lever for locking with 3 padlocks
- Graduated rubber grommets

Switch type	S32J	S40J	S63J
Nominal insulation voltage U_i , V*	690	690	690
Nominal impulse withstand voltage U_{imp} , kV	6	6	6
Rated thermal current I_{th} , A	32	40	63
Rated operating current I_e , A, AC-21A-ohmic loads; AC-1-low inductive loads	32	40	63
Rated working power, kW / min. working current I_e , A			
AC-3 short armature motors; start up, shut down while running	1 phase 220-240V	4/22,7	4,4/25
	3 phase 220-240V	7	7,7
	380-440V	12/17,3	13/18,8
	500V	12	13
AC-23 switching of motor and highly inductive loads	1 phase 220-240V	6,8/32	7,3/40
	3 phase 220-240V	10	12,5
	380-440V	17,5/32	22/40
	500V	22	30
Rated working current I_e , A			
- Unidirectional	24V	32/12	34/12
(Switching with one contact)	48V	25/10	25/10
DC-21A/DC-22A	110V	4/3	4/3
(Resistive load / DC motors)	220V	1/0,4	1/0,4
Rated conditional short circuit. current, kA	10	10	8
With fuse gG, A	32	40	63
Rated short-term endurance current-1 sec. I_{cw} , A	800	1000	1200
Short-circuit switching capability I_{cm} , A	800	1000	1200
Mechanical durability (cycles)	3x10 ⁵	3x10 ⁵	3x10 ⁵
Range of connecting wires, mm ²	2,5-10	2,5-10	6-10
Connection screw	M5	M5	M5
Control shaft	□5	□5	□6



Label designations

1

Open the MAIN SWITCH
in position 0

2



3

WATTMETER

4

VOLTMETER

5

AMPERMETER

6

VOLTMETER
AMPERMETER

7

HEATING

8

PUMP

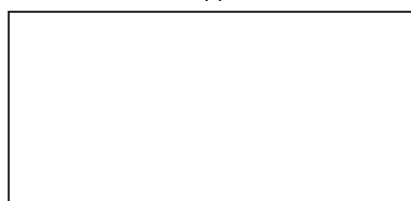
9

MOTOR

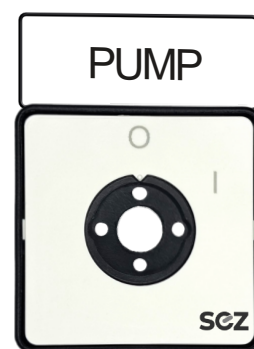
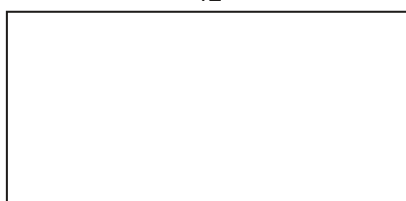
10

SHIFT

11



12



- Another text on labels please state in your order

SCHEMES

Front plate color: aluminum (standard)

Other color (only by special order)

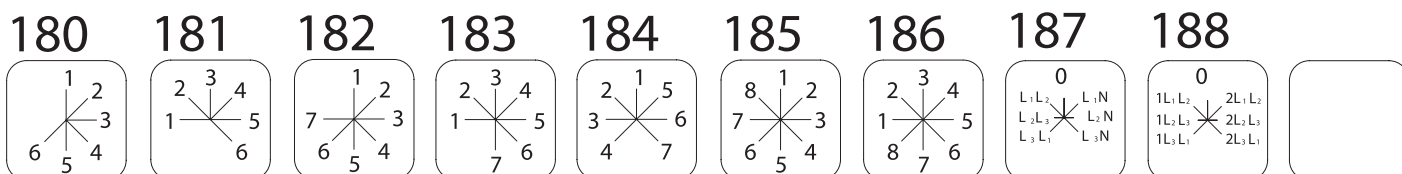
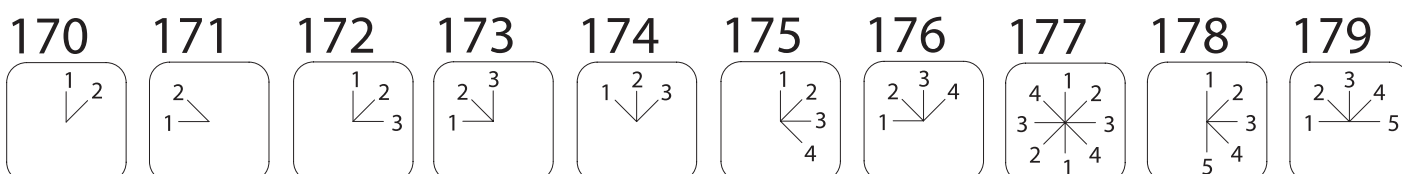
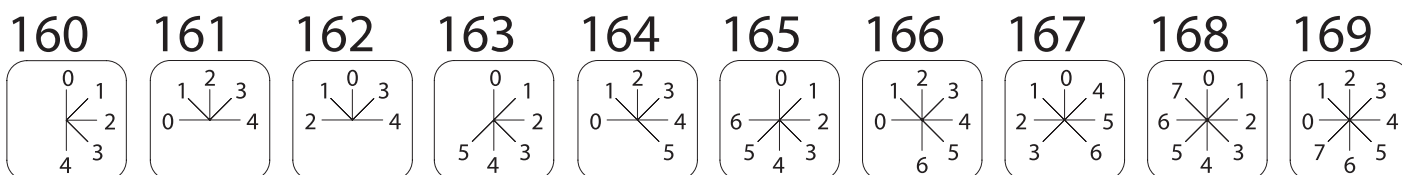
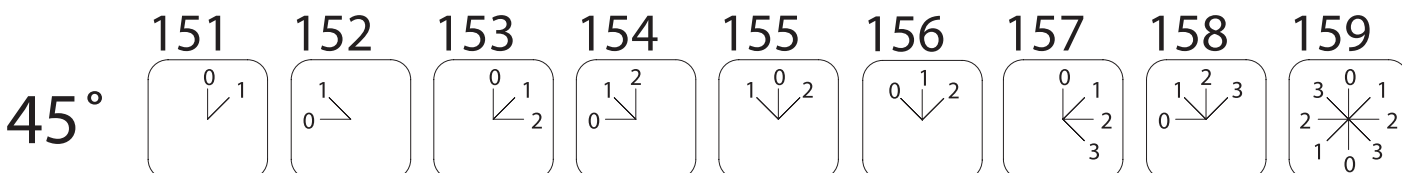
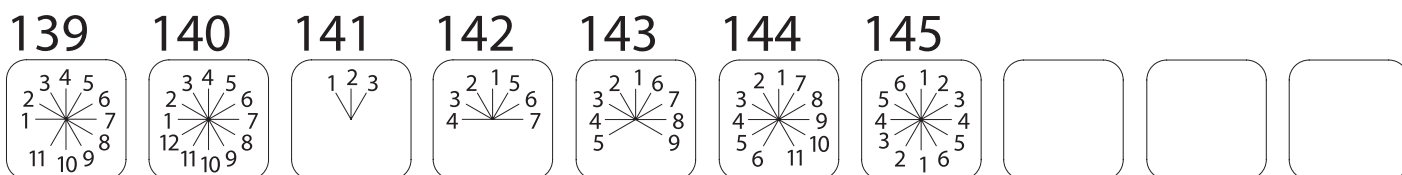
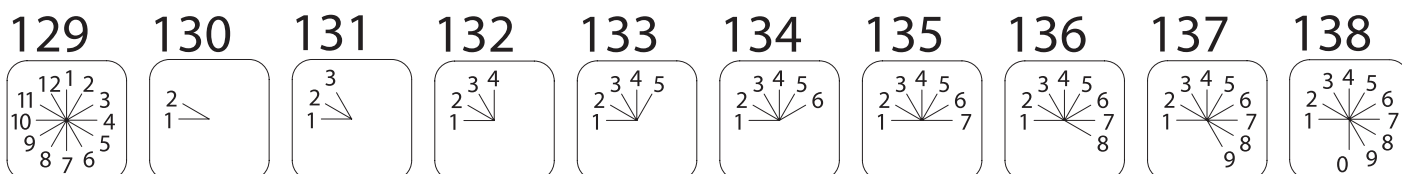
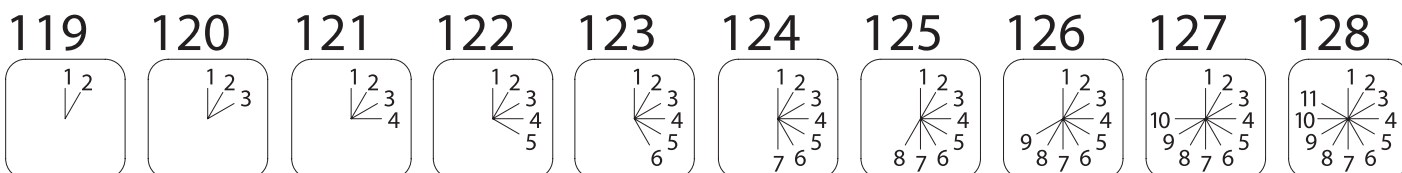
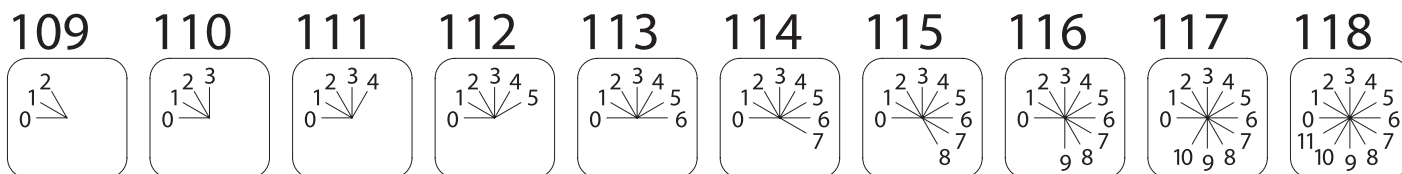
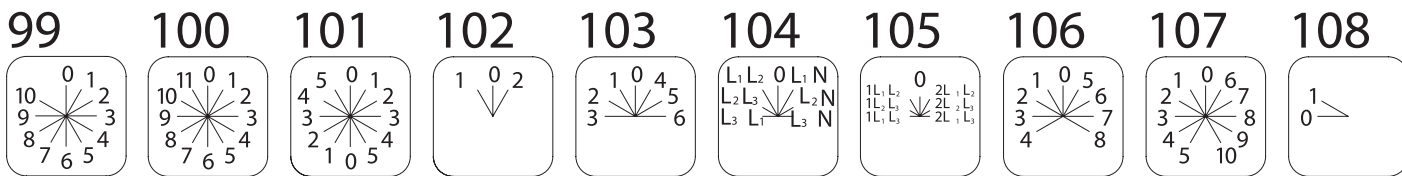
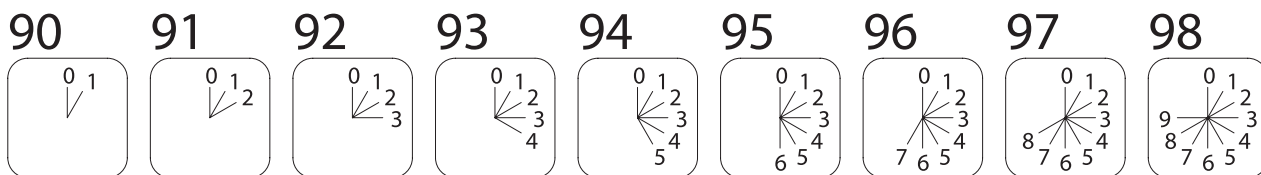
60°

01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	19
20	21	22	23	24	25	26	27	29
30	31	32	33	34	35	36	37	39
40	41	42	43	44	45	46	47	49
50	51	52	53	54	55	56	57	58

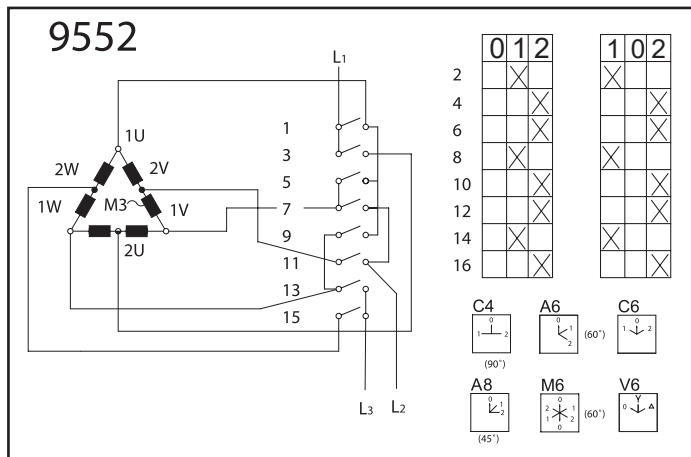
90°

60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	78
79	80	81	82	83				

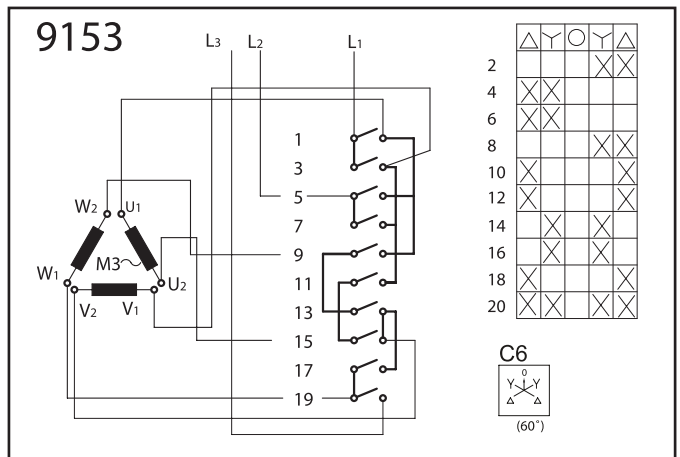
30°



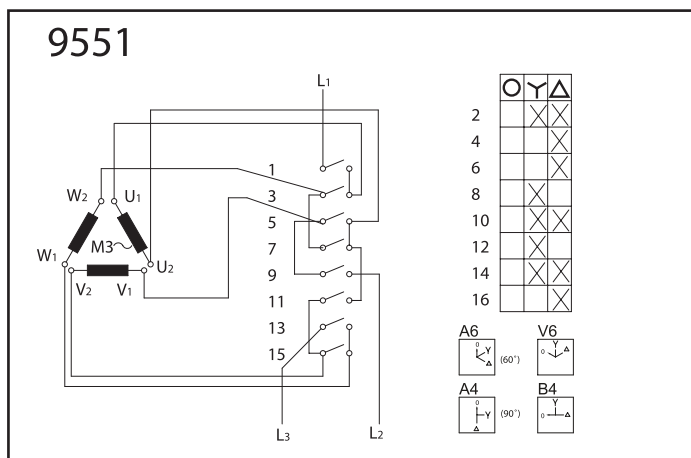
Dahlander Switch



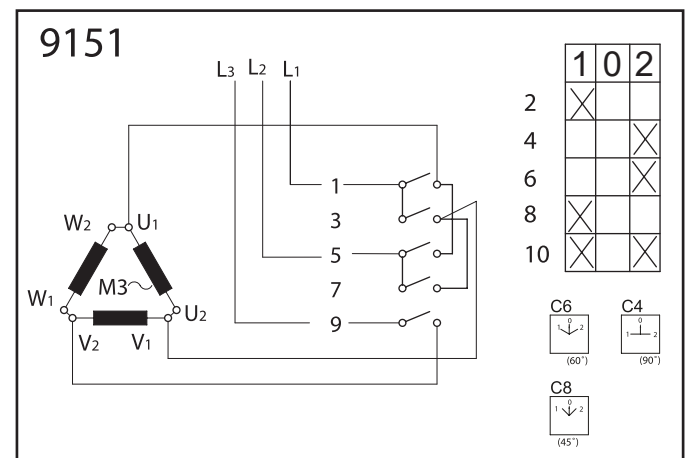
Y-D Switch, Directional Switch



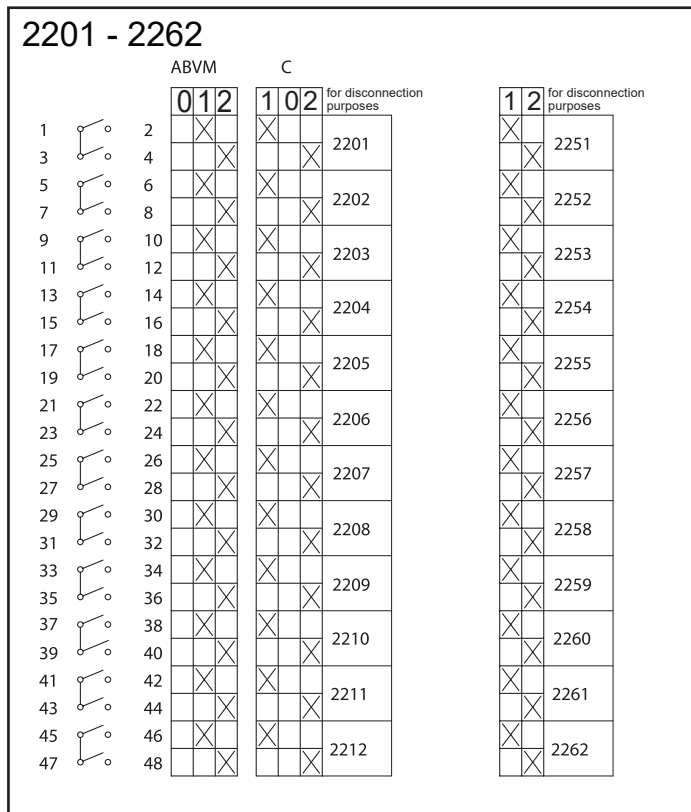
Y-D Switch



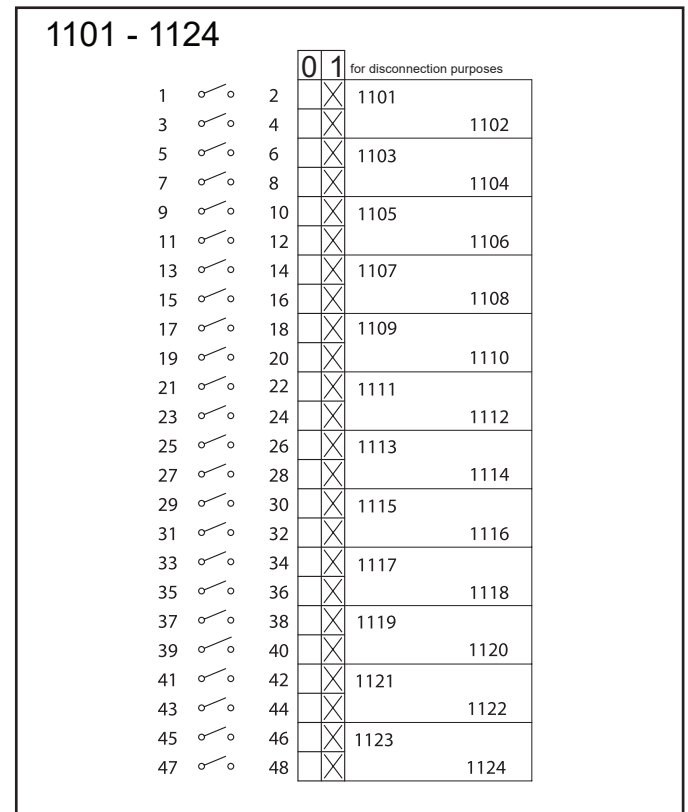
Directional Switch



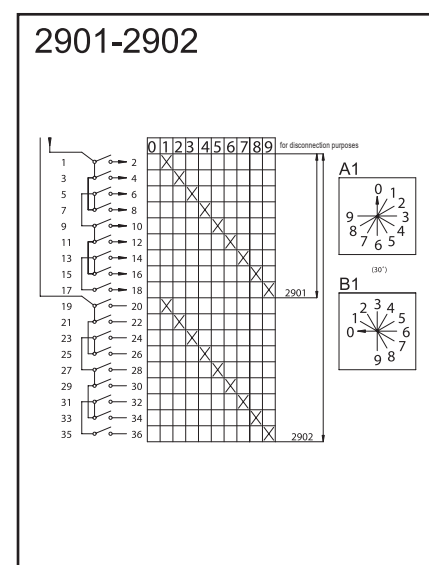
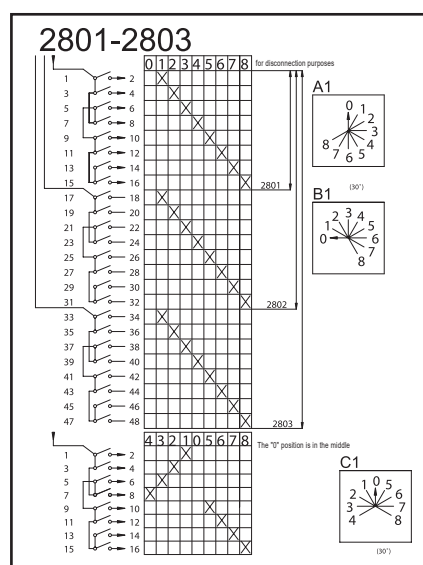
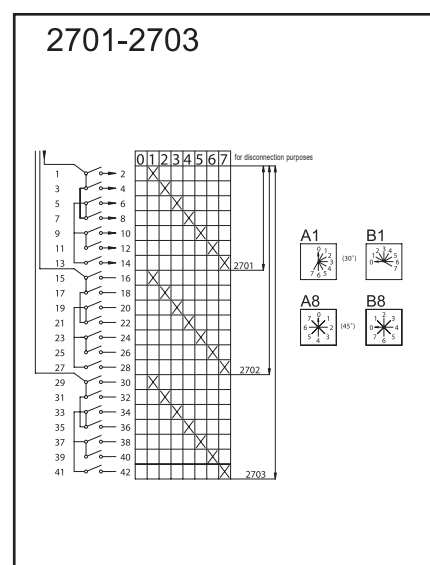
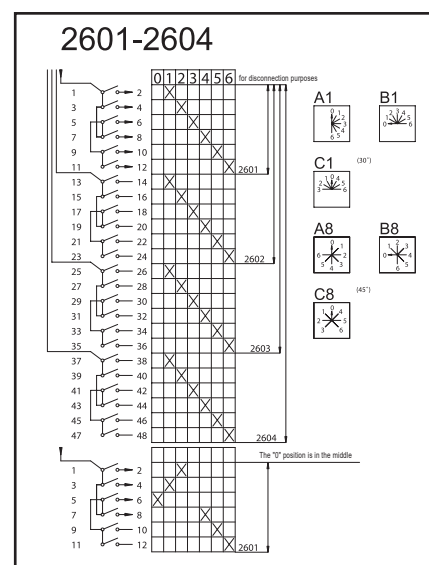
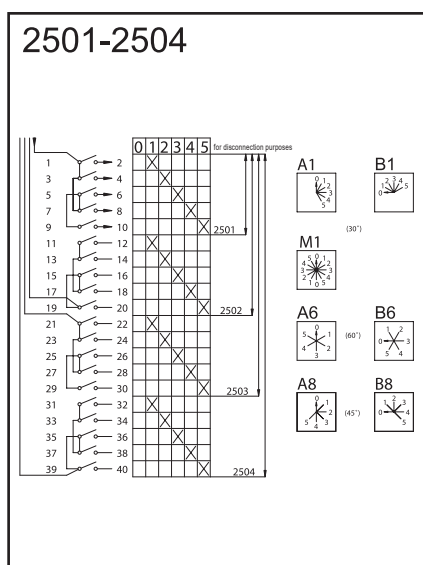
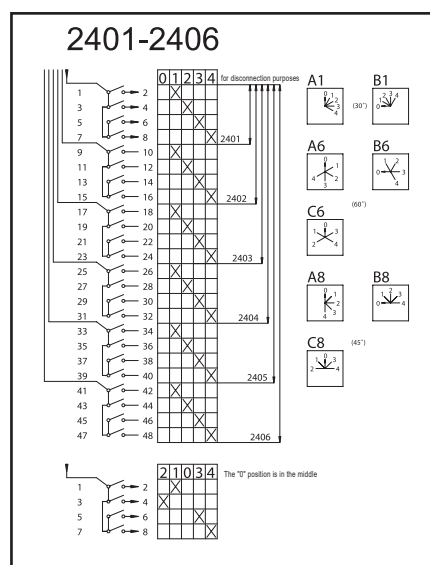
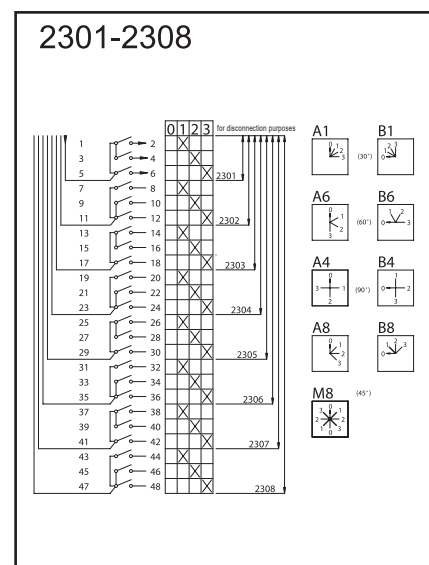
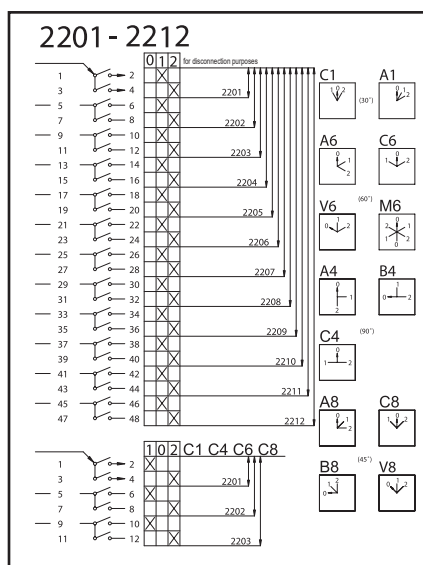
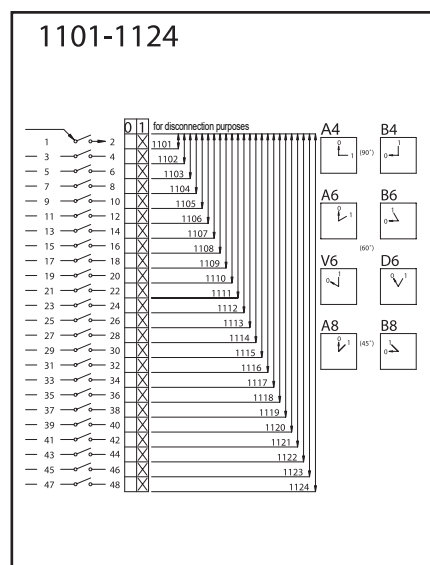
Changeover Switch



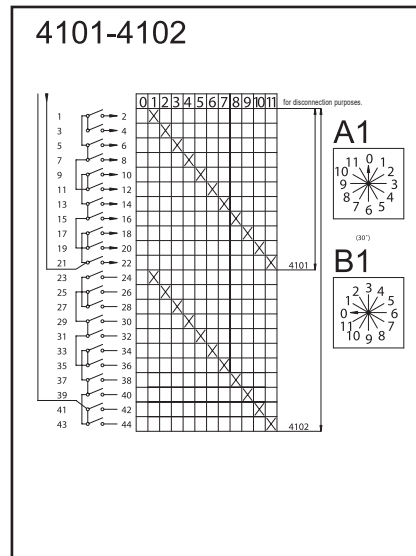
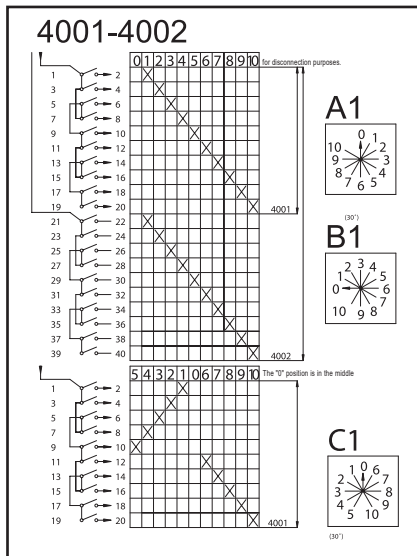
On-Off Switch



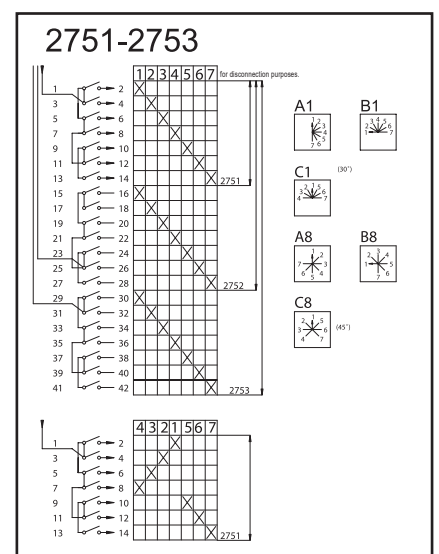
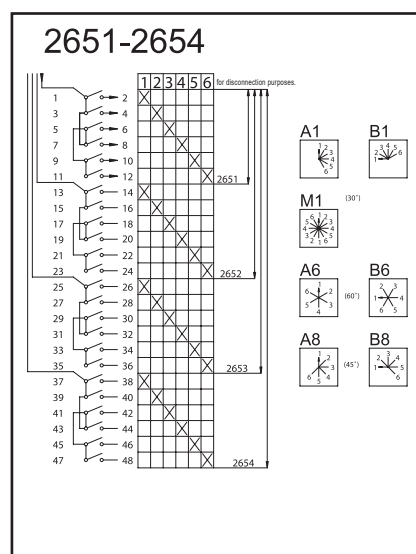
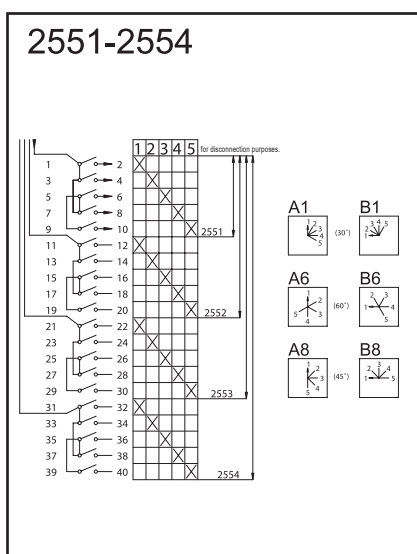
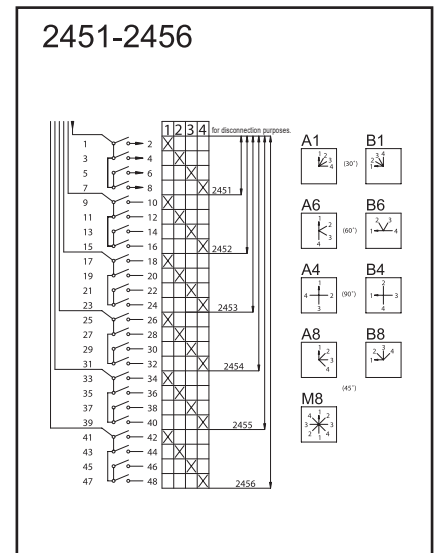
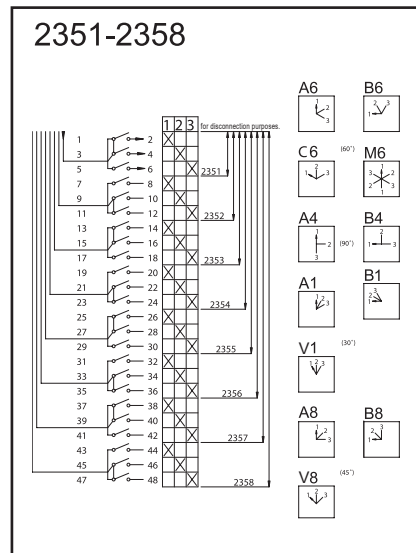
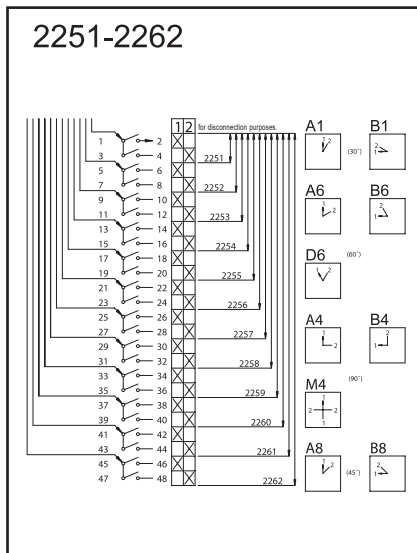
On-Off Switches and Changeover Switches with "0" position

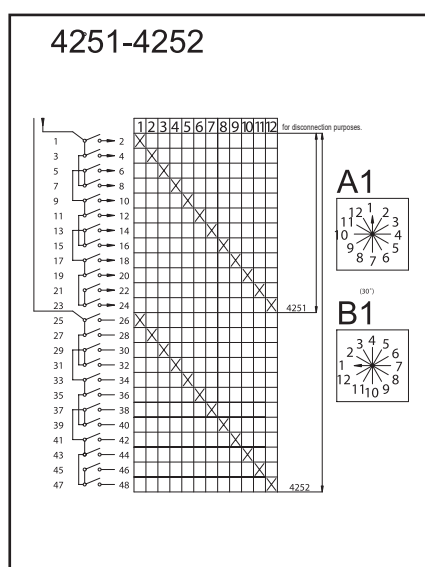
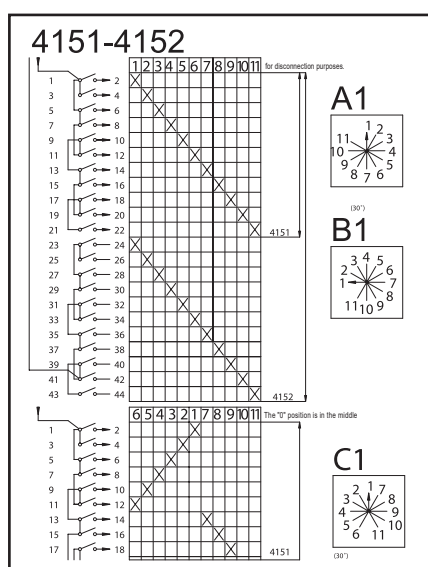
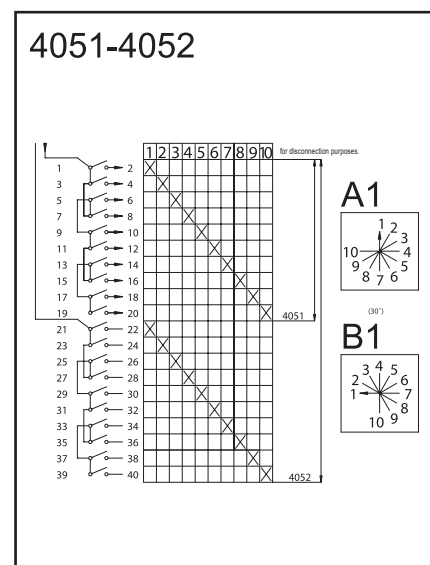
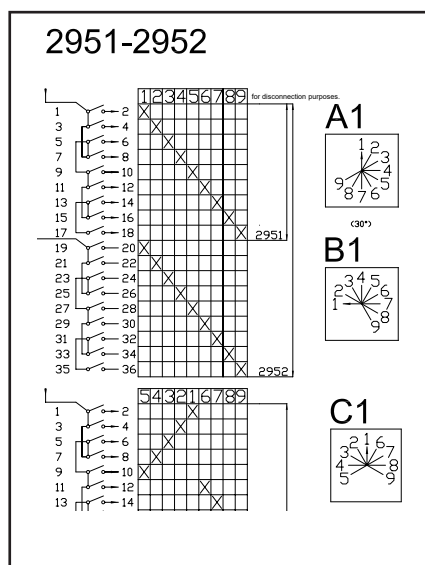
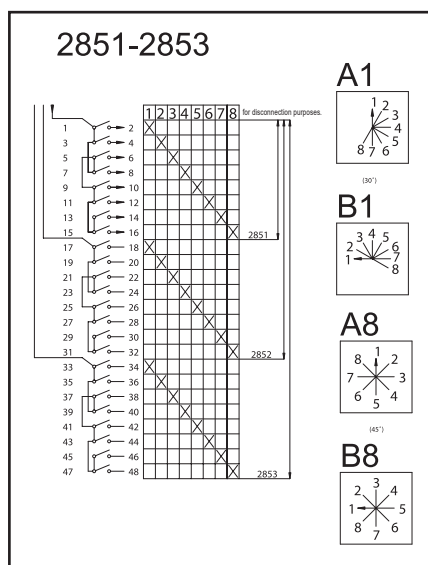


On-Off Switches and Changeover Switches with "0" position (repeated term)

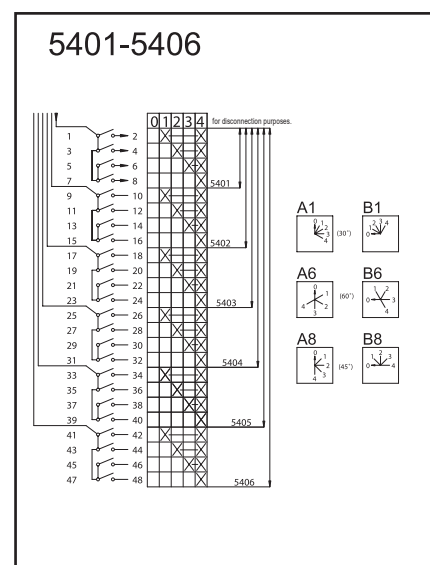
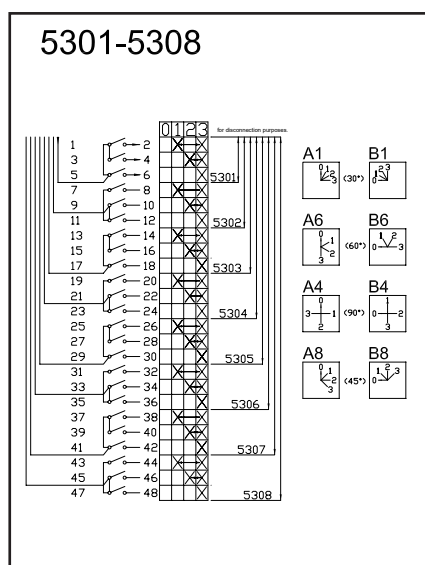
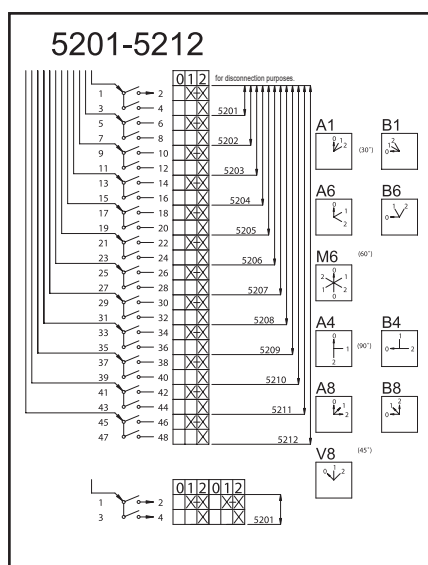


On-Off Switches and Changeover Switches without "0" position



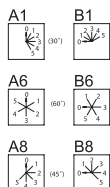
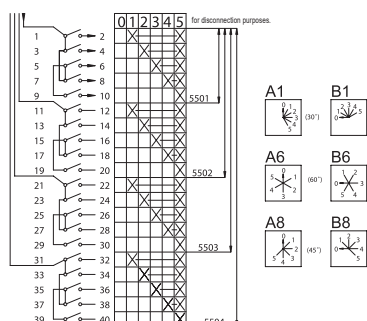


Step Switches with continuously closed contacts from switching, with "0" position

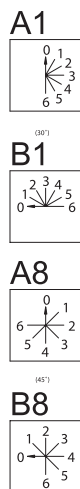
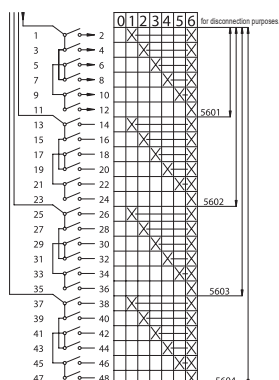


Step Switches, with continuously closed contacts from switching, with "0" position (repeated term)

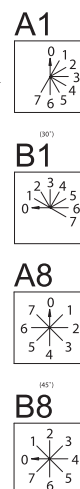
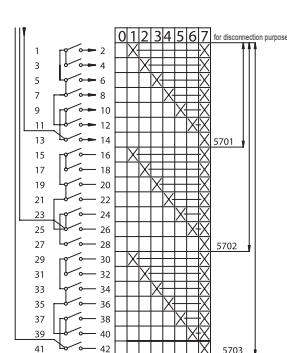
5501-5504



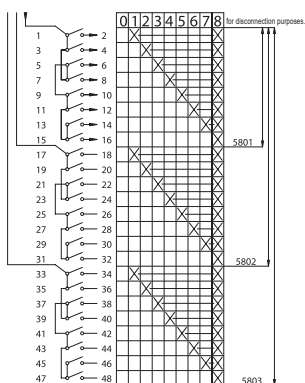
5601-5604



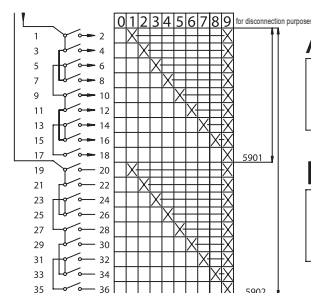
5701-5703



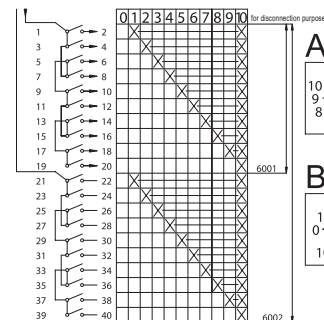
5801-5803



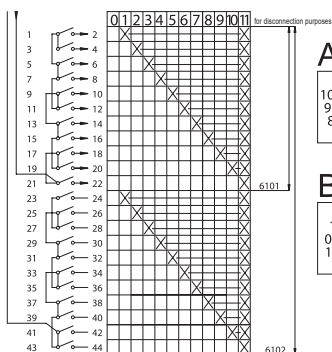
5901-5902



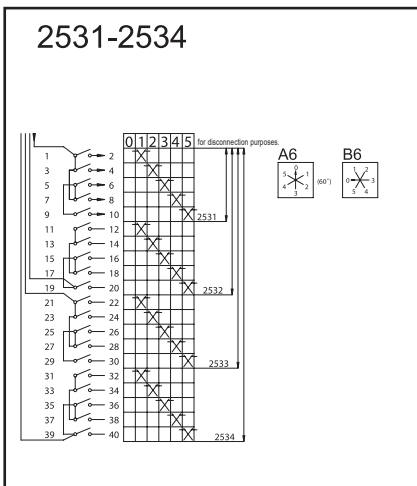
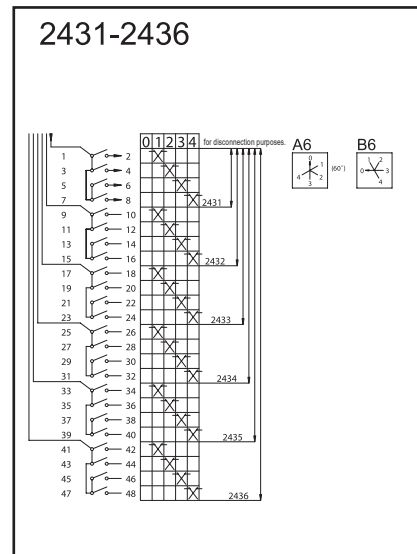
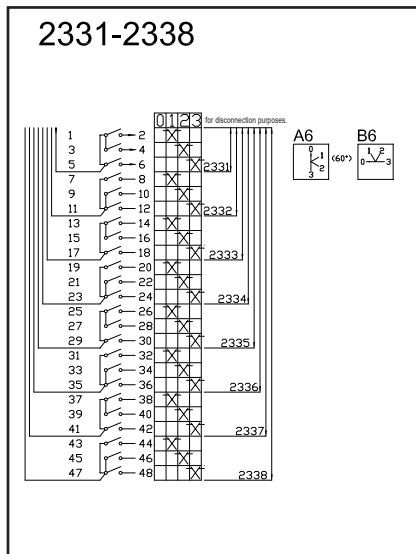
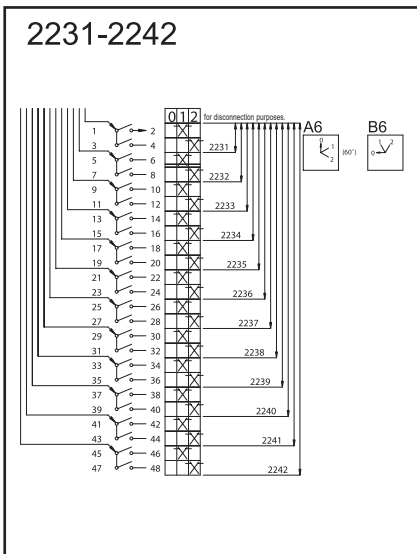
6001-6002



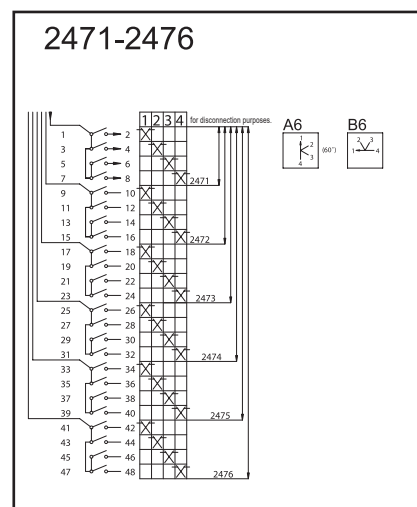
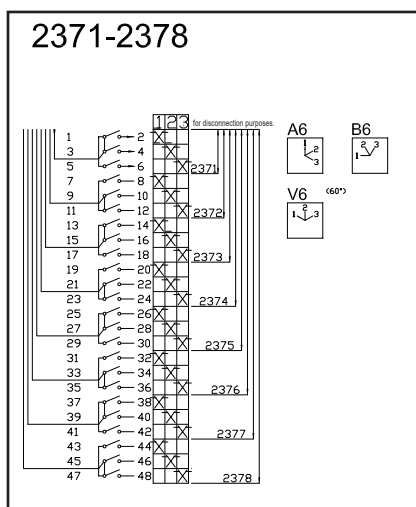
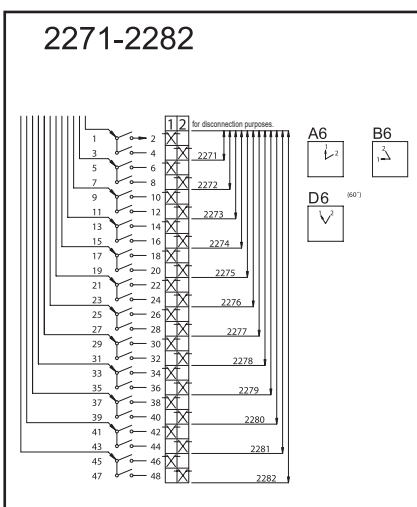
6101-6102



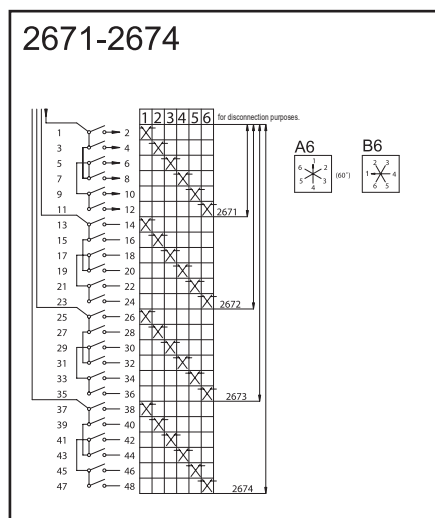
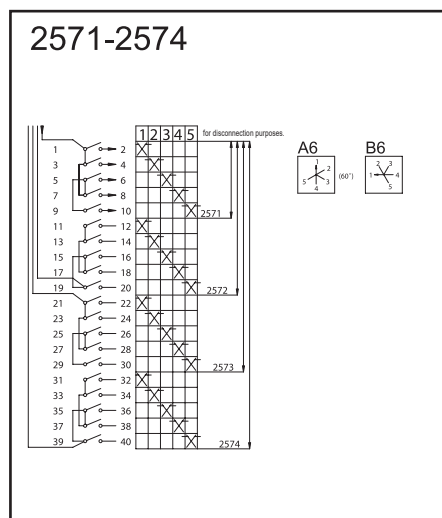
STAGE OVER SWITCHES WITH ZERO POSITION WITH OVERLAP CONNECTIONS



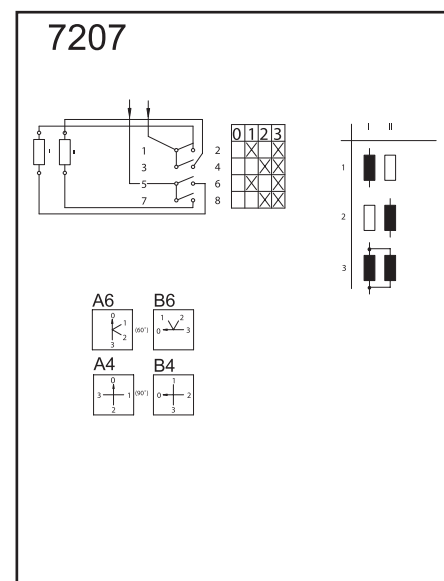
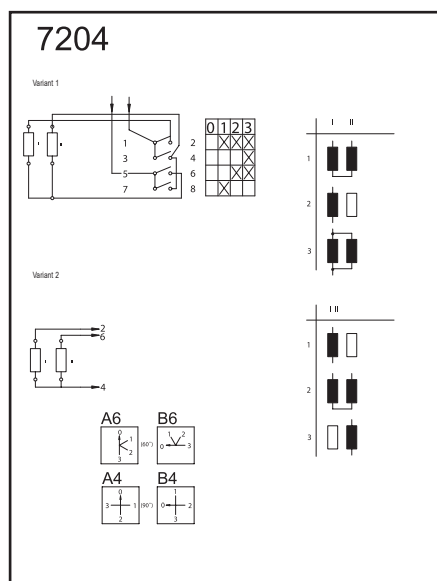
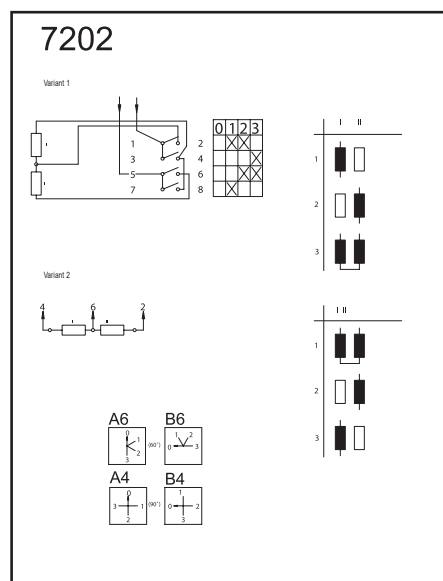
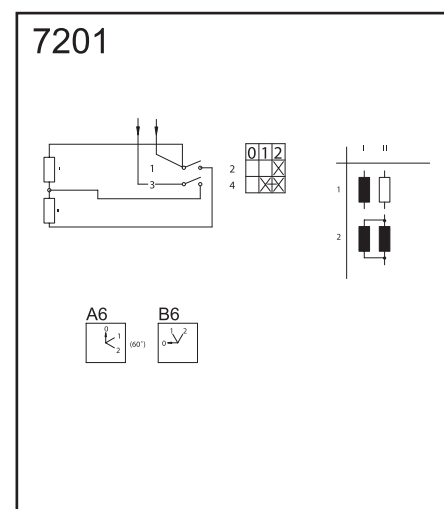
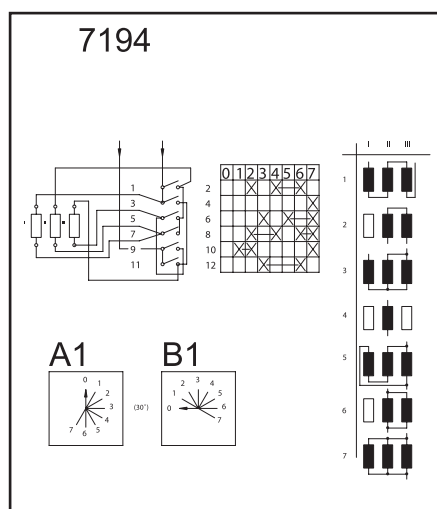
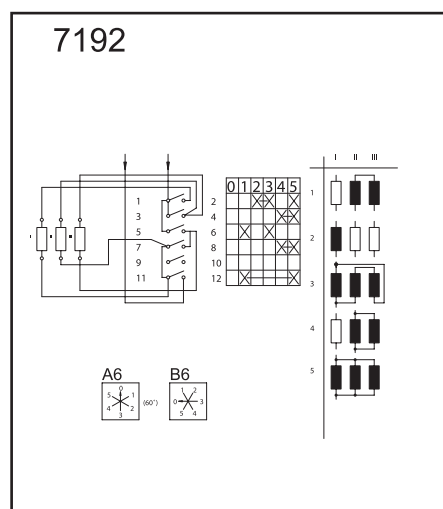
STAGE OVER SWITCHES WITHOUT ZERO POSITION WITH OVERLAP CONNECTIONS



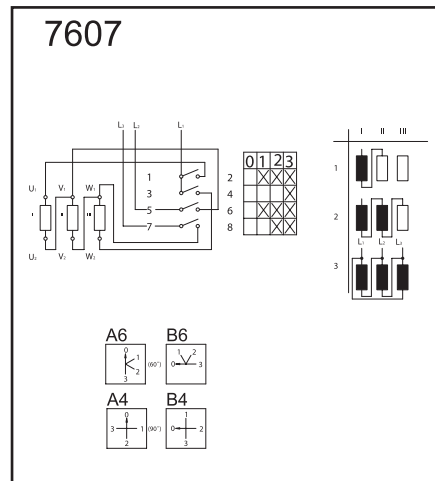
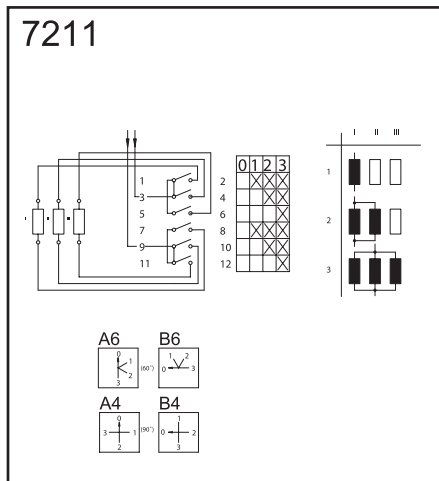
Step switch with delayed opening, early closing contact, without "0" position



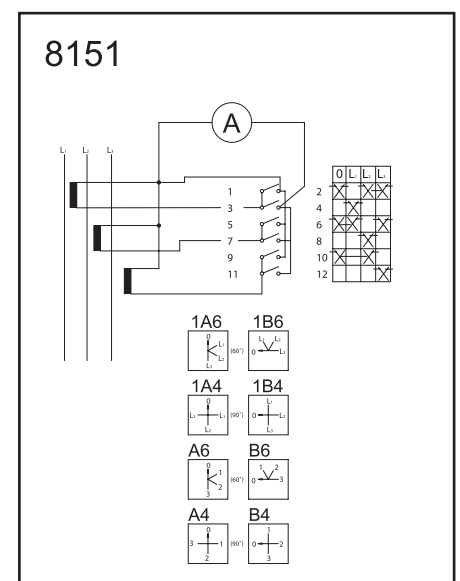
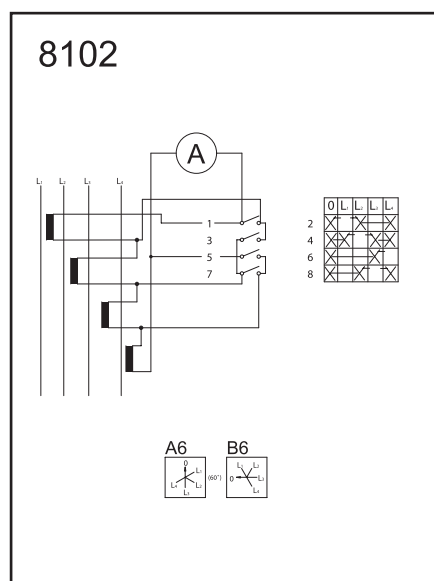
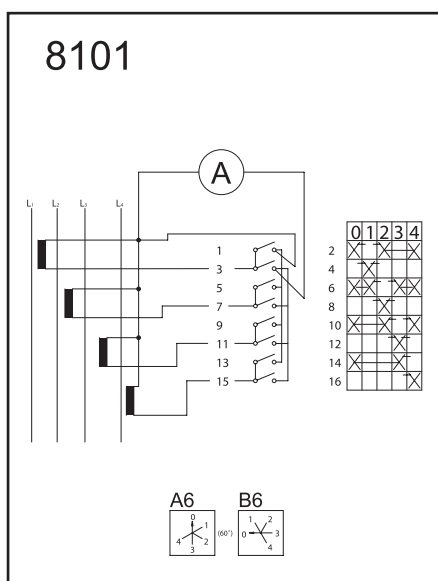
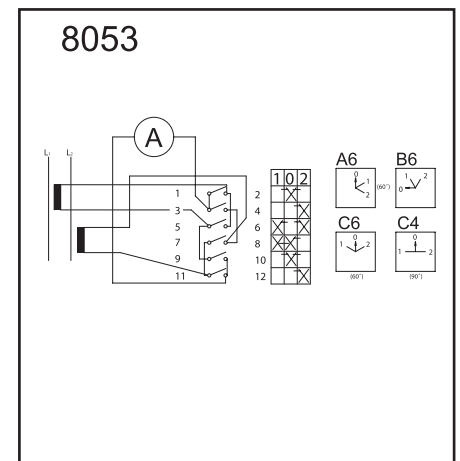
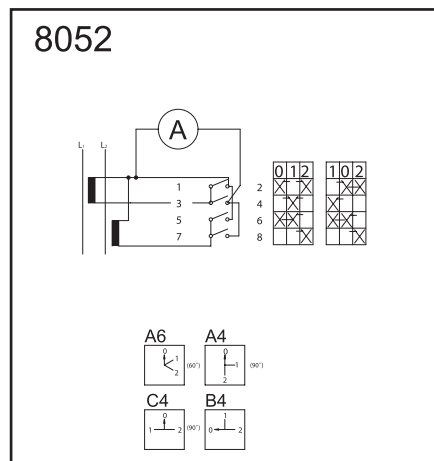
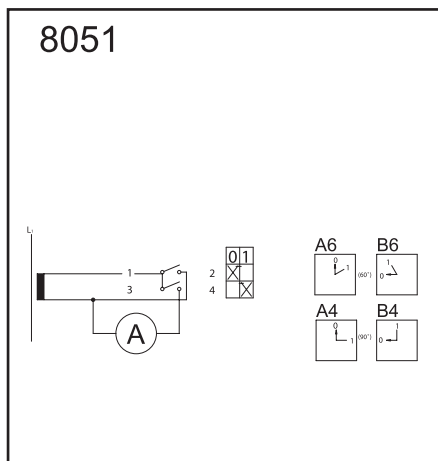
Step switches (heating switches)



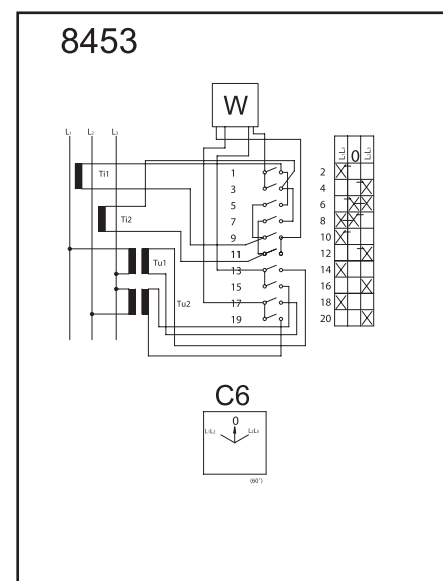
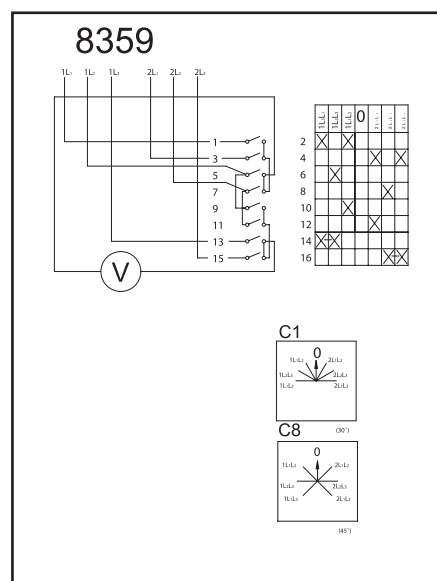
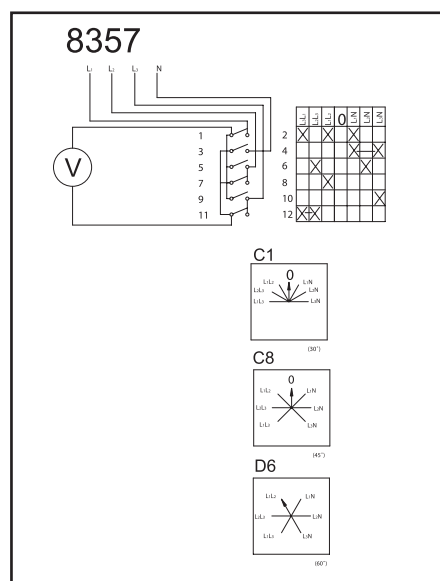
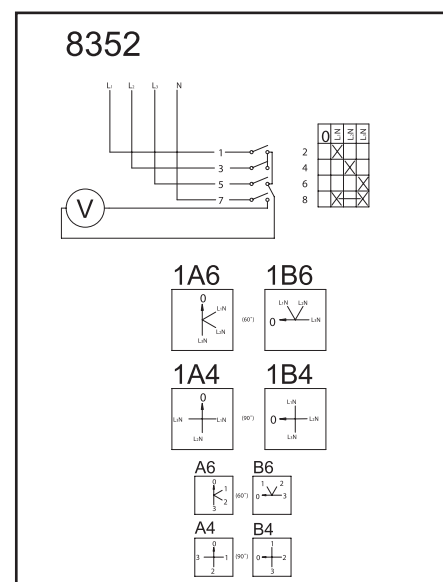
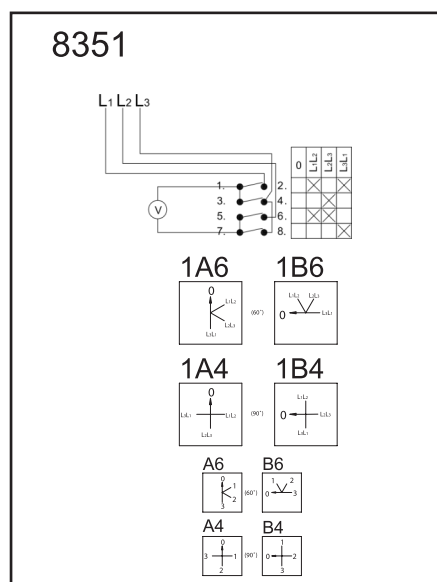
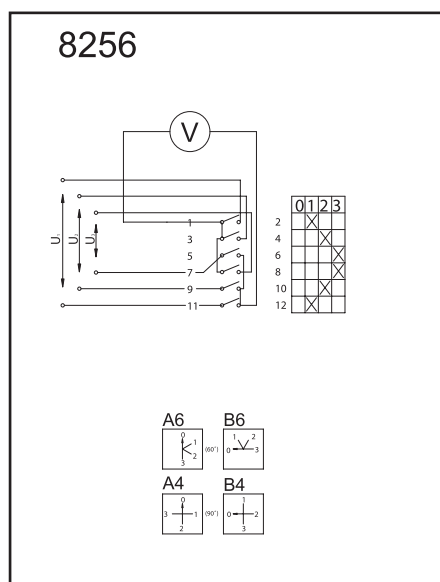
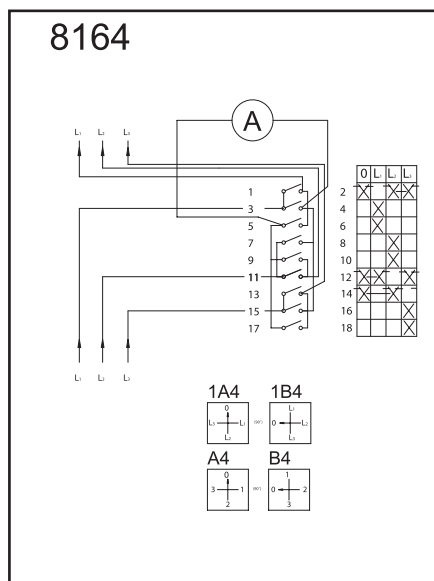
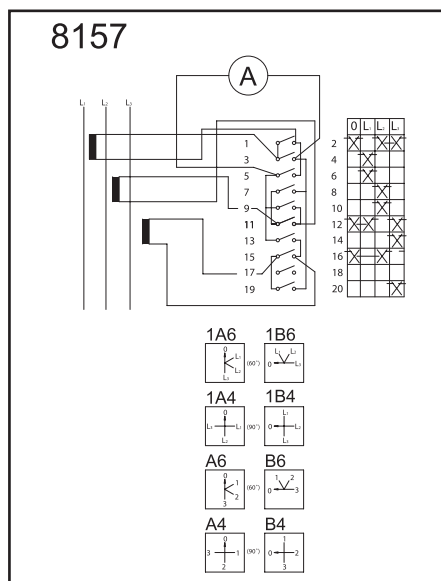
Series switches (heating switches)



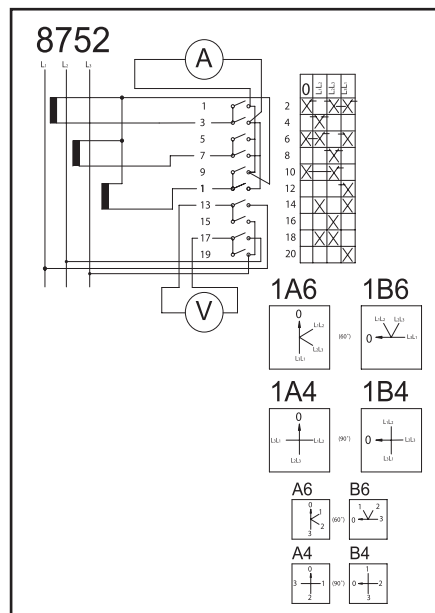
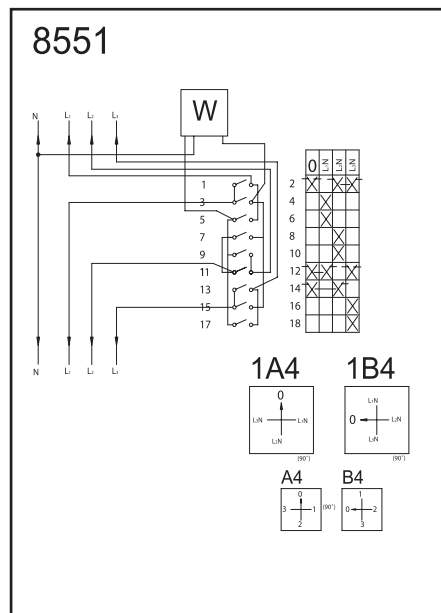
Voltmeter, ammeter, and wattmeter switches



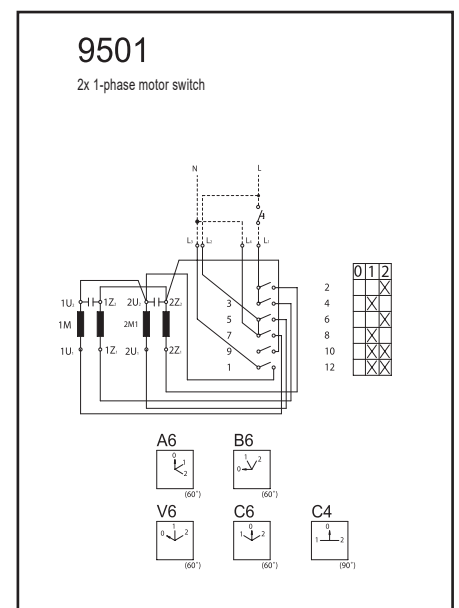
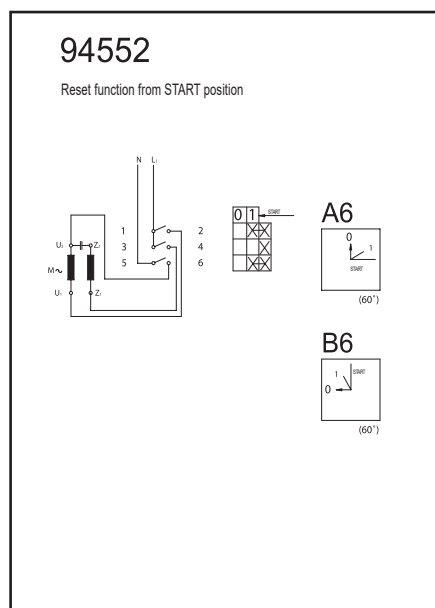
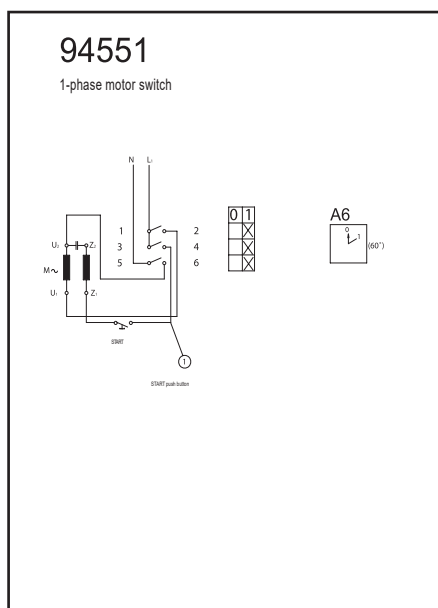
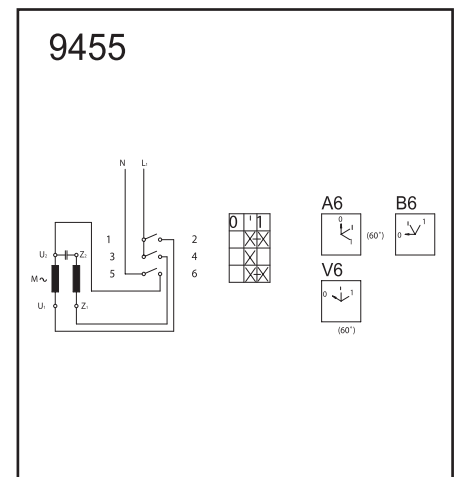
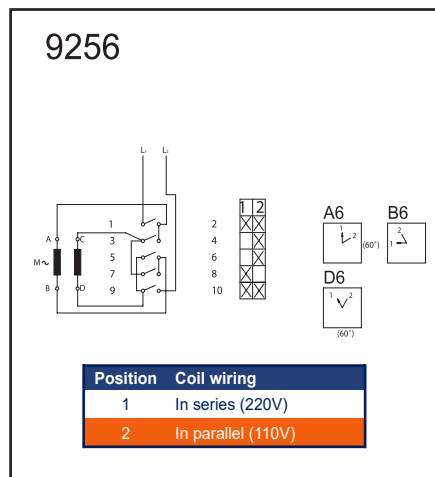
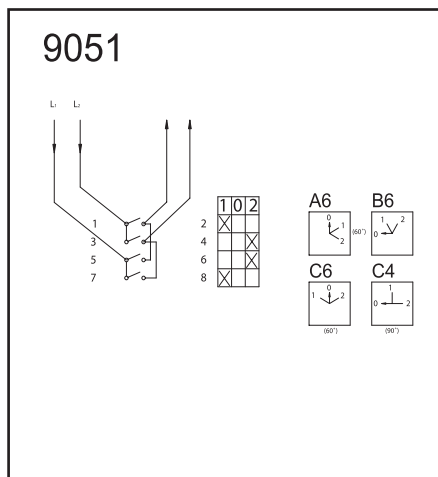
Ammeter, voltmeter, and wattmeter switches



Voltmeter, ammeter, and wattmeter switch



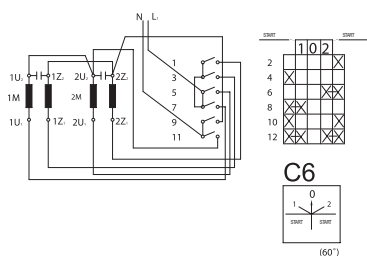
1-phase motor switches



1-phase motor switches

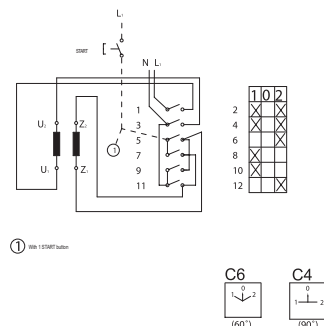
95012

2 pcs of 1-phase motor switch (with 2 reset functions from START)



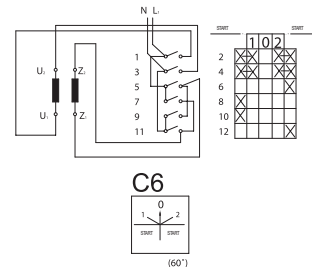
91011

1-phase directional motor switch



91012

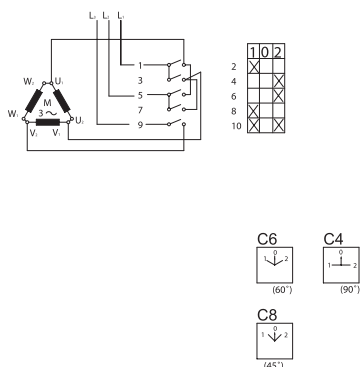
1-phase directional motor switch



3-phase asynchronous motor switch

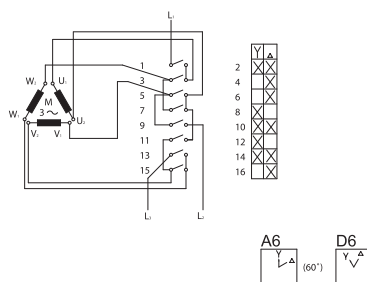
9151

3-phase directional switch



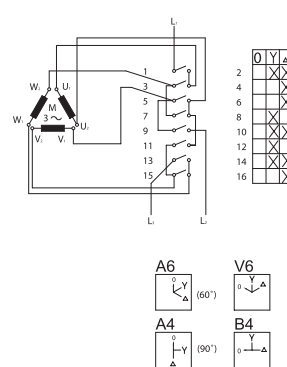
93521

Y-Δ switch



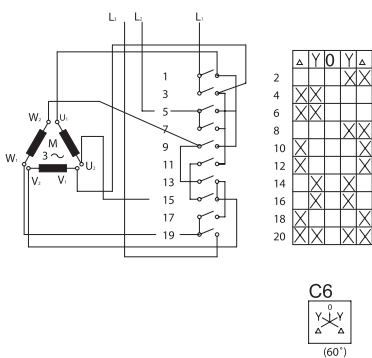
9551

Y-Δ switch



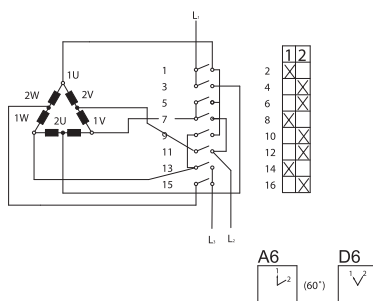
9153

Y-Δ directional switch



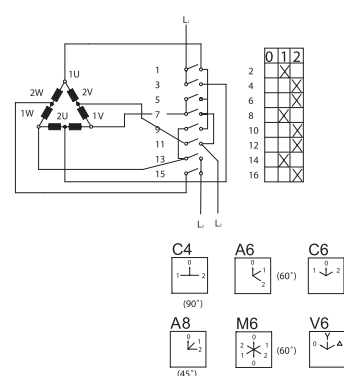
9354

Pole-changing switch (Dahlander) Δ-YY



9552

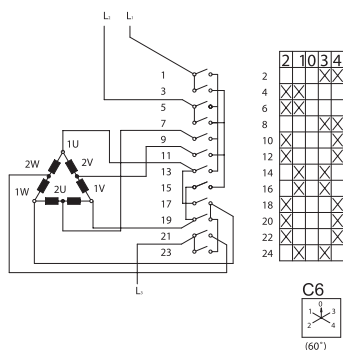
Pole-changing switch (Dahlander) 0-ΔY-(Δ-0-YY)



3-phase asynchronous motor switches

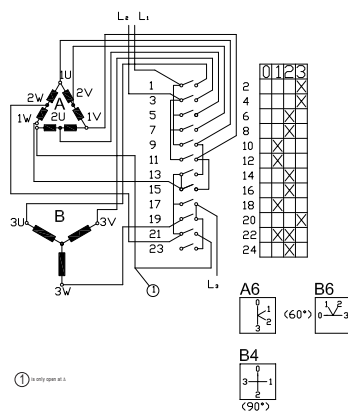
9154

Pole-changing switch (Dahlander) $Y/Y_2-0-0-YY$



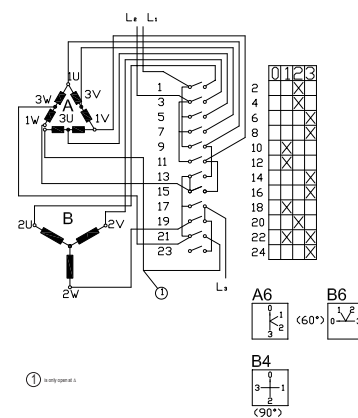
9554

Pole-changing switch $0-\Delta_2-Y_2/Y_1$
(3 speeds, 2 separate windings, YBa at the third speed.)



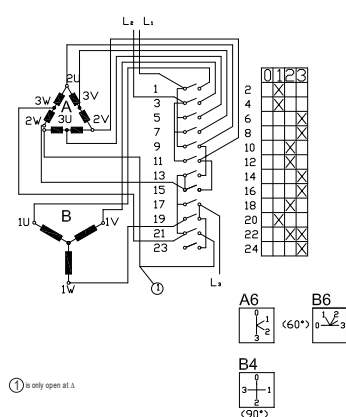
9555

Pole-changing switch $0-\Delta_2-Y_2/Y_1$
(3 speeds, 2 separate windings, YBa at the second speed.)



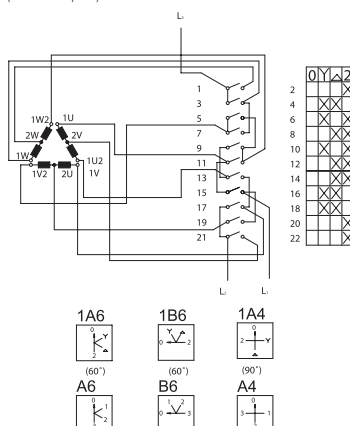
9556

Pole-changing switch $0-Y_2-\Delta_2/Y_1$
(3 speeds, 2 separate windings, YBa at the first speed.)



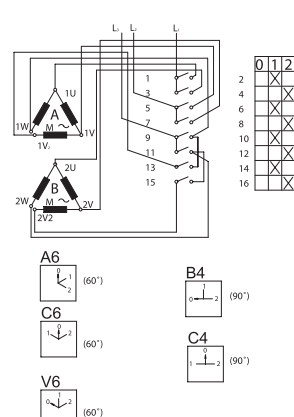
9567

Pole-changing switch $0-Y-\Delta-YY$
(Dahlander - 2 speeds)



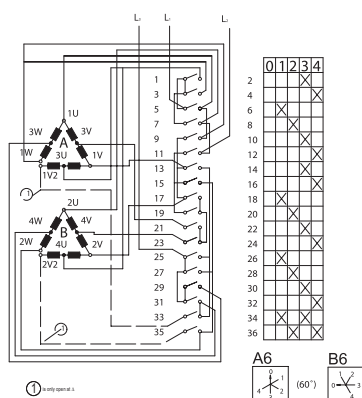
9553

Pole-changing switch
(2 separate windings)



9557

Pole-changing switch $0-\Delta_2-Y_2/Y_1$
(2x Dahlander - 4 speeds)



Rotary Switches S32,250,400 J

Description

Rotary switches S32J, S250J and S400J are switching devices with a 60° switching angle and up to six switching positions.

The switch operating mechanism is separated from the switching section of the device. After the operating handle is turned, it provides rapid opening and closing of the contacts, regardless of the method or speed of operation.

The switching section is of modular design and consists of up to six switching chambers (S32J) or four switching chambers (S250J and S400J). The chambers contain discs with movable copper-based contact rollers and terminals for conductor connection. The maximum number of switching poles is 12 for the S32J and 8 for the S250J and S400J.

The switches are characterized by large contact separation distances in the OFF position. Combined with the minimal use of metallic parts, this design ensures a high level of operator safety.

Use

They are used for switching unidirectional and alternating electrical circuits till the rated current, and ohmic and inductive load.

Technical data

- they correspond to EN 60 947-3 (EN 60 947-3, IEC60 947-3, ČSN EN 60 947-3)

		S32J	S250J	S400J
Rated isolation voltage U_i, V*		500	660	660
Rated current I_n, A		32	250	400
Rated thermal current I_{th}, A		32	250	400
Rated frequency Hz		50	50	50
Switching ON/OFF ability, A		AC 3	AC 22	AC 22
	In 500V	250	450	750
	In 380V	250	750	900
Working current I_e, A	In 500V	18	150	200
	In 380V	25	250	250
Electric durability, cycles		10 000	1 000	1 000
Mechanical durability, cycles		100 000	10 000	10 000
Class of operational interruption		30	30	30
Working current I_e, A		DC 22	DC 21	DC 22
In 110V =	poles in series 1	6	16	100
	2	12	20	150
	3	16	32	-
In 220V =	poles in series 1	4	10	40
	2	6	16	100
	3	10	20	-
Connection of conductors, mm²		1,5 - 6	240*	240*

* Possibility to connect cable eye up to Ø 30 mm, for bigger section of the connecting wires is necessary to use additive clamps.

Mechanical type

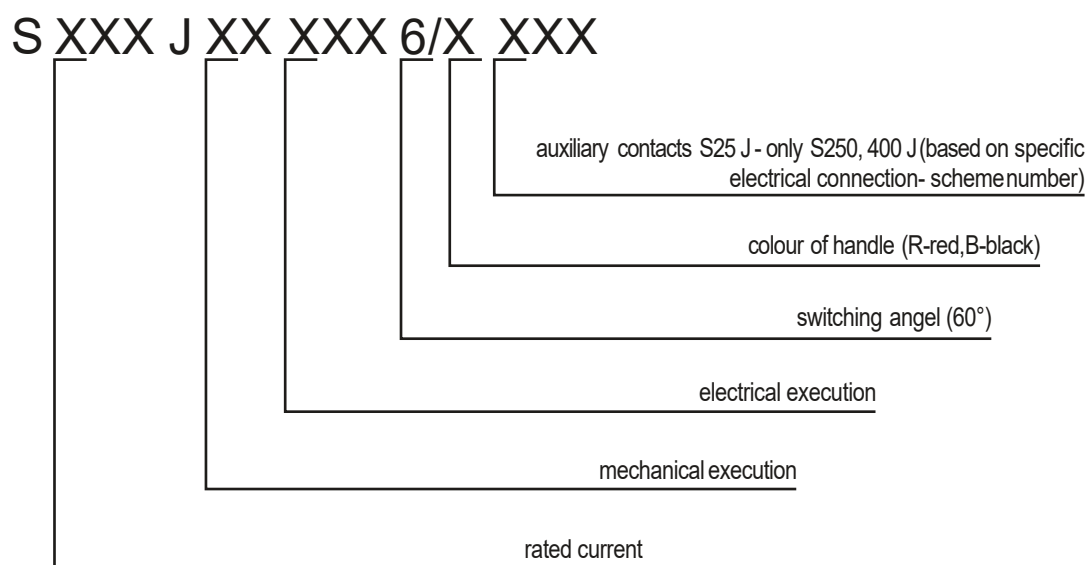
Type designation	Execution
S ... J	contact maker/switch with lever
S ... JD	contact maker/switch with front board
S ... JVZ	contact maker/switch with padlocks

Electrical type

Type	Designation	Marking	No. of switching chambers
S 32J	Three pole switch	001	2
	Reverse switch	002	3
	Switch YD	003	4
	Reverse switch YD	004	6
	Pole-changing switch	005	4
	Network switch	006	3
S 250, 400J	One-pole switch	01	1
	Two-pole switch	02	1
	Three-pole switch	03	2
	Four-pole switch	04	2
	One-pole changeover switch	11	1
	Two-pole changeover switch	12	2
	Three-pole changeover switch	13	3
	Four-pole changeover switch	14	4

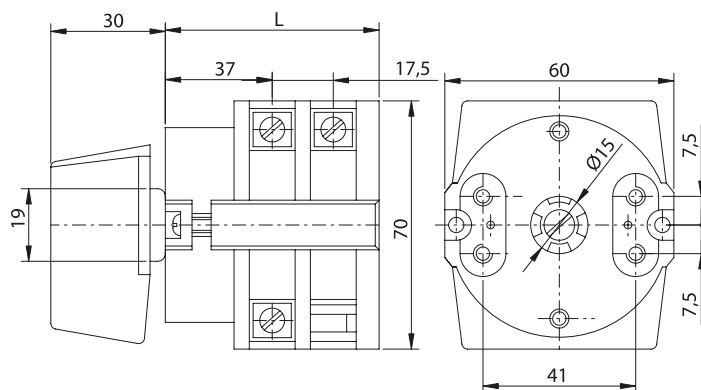
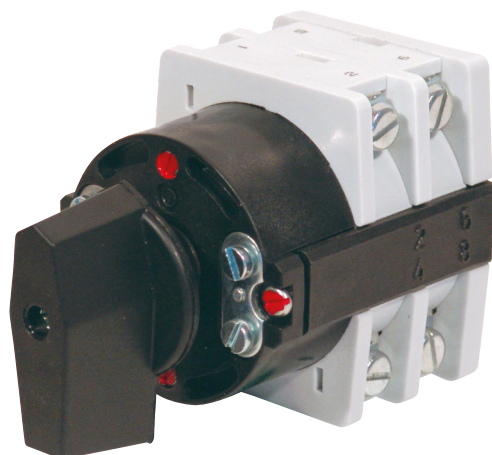
Other electrical configurations are available upon agreement with the manufacturer, or the electrical schematic numbering of the S6–160J cam switch series may be used.

TYPE DESIGNATION

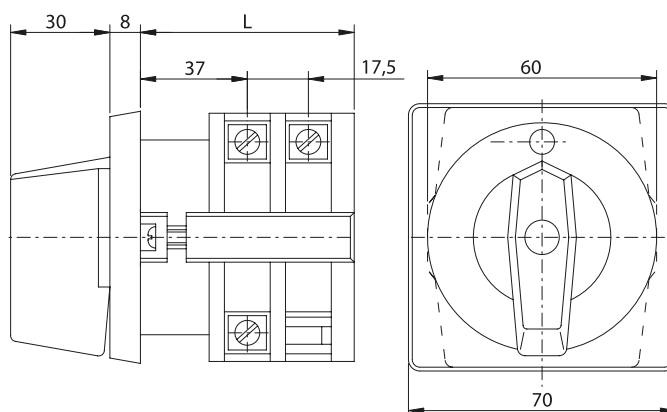


Notes: Auxiliary contacts (switch S25 J) are mounted to the rear side of switches S250, 400 J.

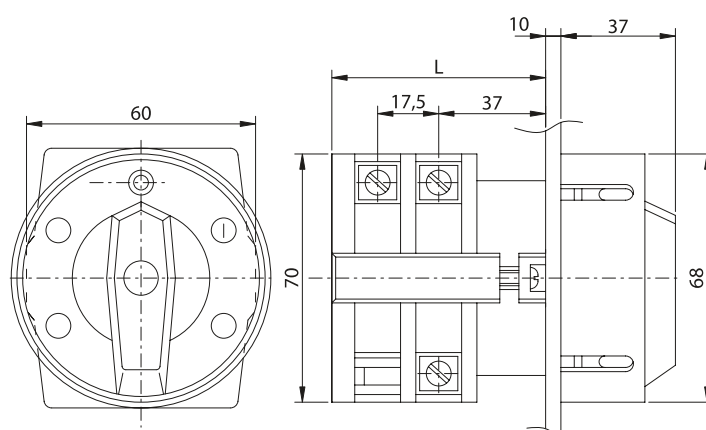
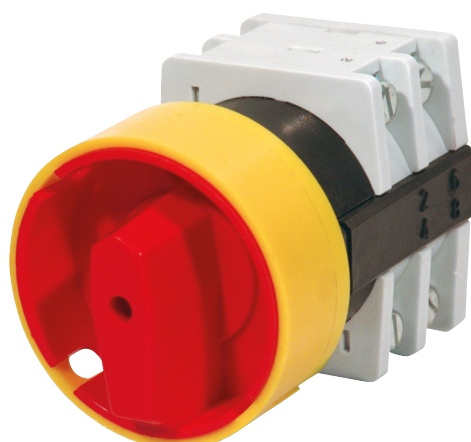
Rotary switch S32 J



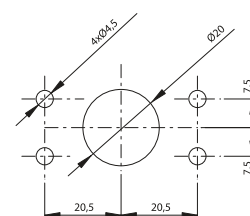
Rotary switch S32 JD



Rotary switch S32 JVZ

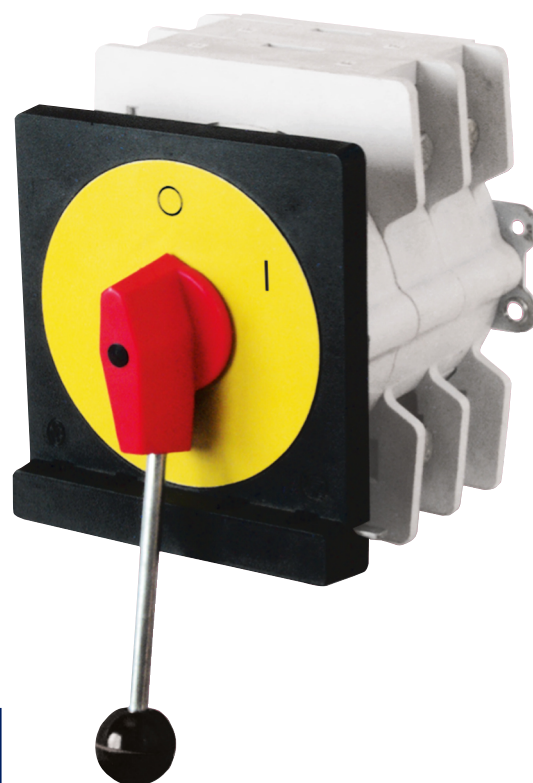
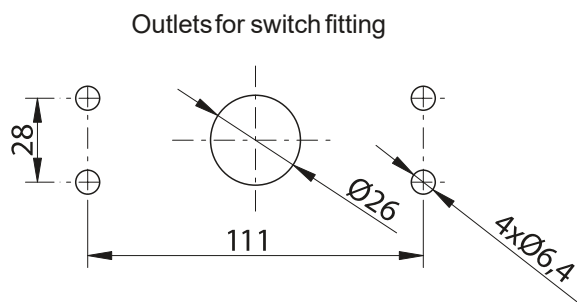
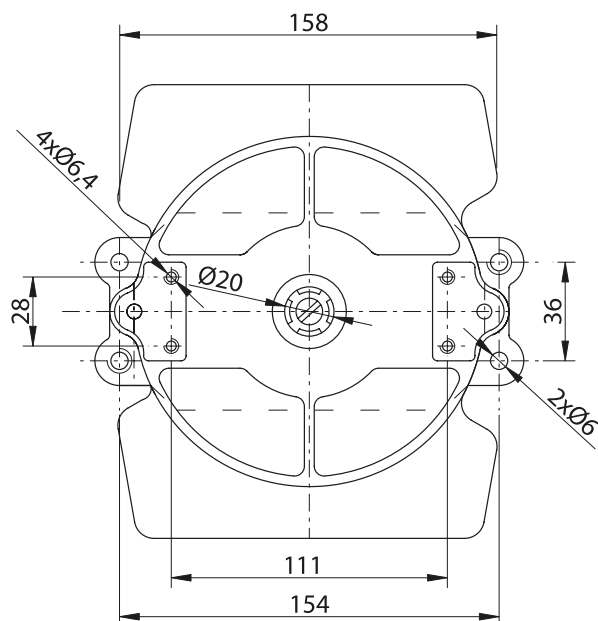
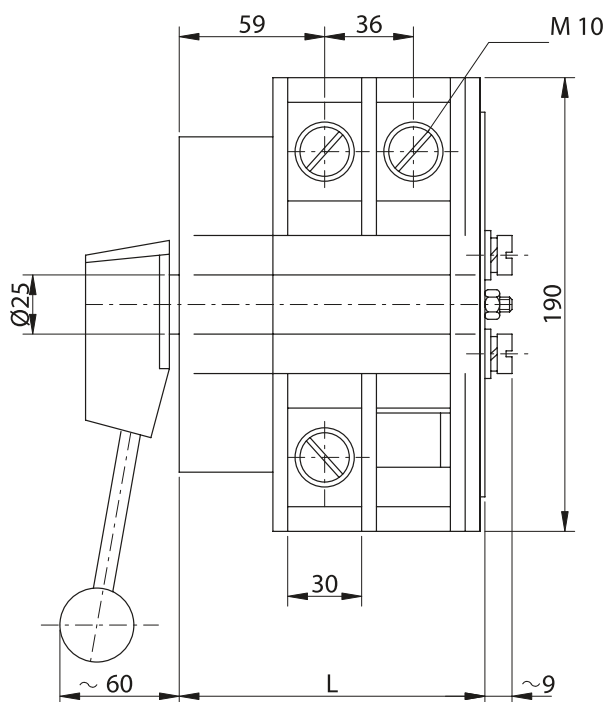


Outlets for switch fitting



Number of chambers	1	2	3	4	5	6
L	51	68	86	103	121	138

Rotary switch S250, 400 J



Number of chambers	1	2	3	4
L	88	124	160	196

Fastening:

- to the panel - by four screws M6x10 mm (max) with the axis distance of holes of 28 x 111 mm
- rear - by two screws M6x10 mm (max) with the axis distance of holes of 36 x 154 mm
- frontal plate dimensions of 158 x 172 mm

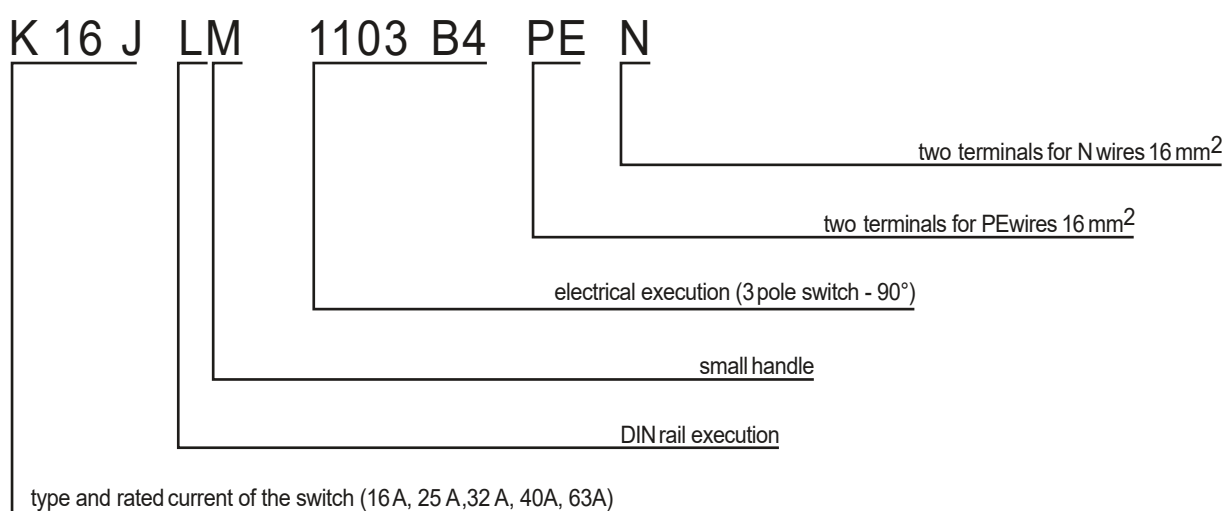
Compact Power Switches K16J - K63J

Use

Compact power switches K16J, K25J, K32J, K40J, K63J are 2 modules, 3 poles switches of rated current 16A, 25A, 32A, 40A, 63A. With switching angle 90°. Switches can be mounted on DIN rail, or on base plate with M4 bolts. They can also be mounted on the front panel of distribution box with 2 self tapping screws Ø 3,9. Access to heads of the screws for connection of conductors is in this case from the back side of the switch and the switch is without back fixing rail.

O basic execution of 3 poles switches K16J, K25J, K32J, K40J, K63J you can add 4-th and 5-th switching pole, or PE and N poles. These units can be attached to the switches without screws from the left or right side. Extensions front plates of operations elements, mechanical executions and numeric designation of electrical schemes are identical with cam switches S16J, S25J, S32J, S40J, S63J.

Example of type designation:



Technical data

Type		K16J	K25J	K32J	K40J	K63J
Standards		STN EN 60947-3				
Rated insulating voltage U_i	V	690	690	690	690	690
Rated impulse voltage U_{imp}	kV	4	4	4	4	4
Rated thermal current $I_n - I_{ns}$	A	16	25	32	40	63
Output in AC3 at 500 V~ (motors)	kW	7,5	9	11	13	15
Rated operating current I_n AC23 A – 500 V~	A	16	25	32	40	63
Rated switching - on capacity	A	160	250	320	400	630
Rated switching - off capacity	A	128	200	256	320	504
Conditional short-circuit current with fuse 16,25,35,40,63A	kA	6	6	6	6	6
Mechanical endurance		100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles
Max. cross section of conductors	mm ²	16	16	16	16	16
Protection degree		IP 20				
Switching angle		IP 40 from the front panel				
Ambient temperature	°C	90°				
Mounting		-30 till +55				
Rated operating current I_n (A) at DC22/21	48 V	on panel, DIN rail 35 x 7,5				
	110 V	16	25	32	40	63
	220 V	1	1	1	1	1
		0,5	0,5	0,5	0,5	0,5

Technical parameters for switching pole SP 16, SP 25 ,SP 32, SP 40, SP63 and range of connecting terminals for N63, N40, N32, N25 and N16 are identical with data in chart – Technical data.

Execution:	Type:	Description:
* Switches with rear mounting	K...JLM	- with small handle for DIN rail or with screws
	K...JLMS	- with small special handle for DIN rail or with screws
	K...JB	- with control on the door
	K...JPD	- in plastic box with IP 65
Switches on panel	K...J	- with handle
	K...JM	- with small handle
	K...JG	- with handle and sealing for IP 65 (also for execution D,U...)
	K...JD	- with handle and front plate
	K...JU	- with lock and 3 padlock - cylindrical
	K...JH	- with locking padlocks on handle
	K...JF	- with LED signalling diode
Accessories	SP 16, 25	- switching pole with terminals 7-8 or 9-10
	SP 32, 40, 63	
	PE 16, 25	- nonswitched pole for two earthing conductors till 16 mm ²
	PE 32, 40, 63	
	N 16, 25	- nonswitched pole for conductors till 16 mm ² terminals for central conductors
	N 32, 40, 63	

* For these types there is a possibility of adding front plate and lock with 3 padlocks U, small handle M and handle H.

Numeric designation of switches:

- 1102 B4** – 2 pole switch
- 1103 B4** – 3 pole switch
- 1104 B4** – 4 pole switch
- 1105 B4** – 5 pole switch

Application

- 2 to 5 poles switches in AC21, AC23 and AC3 categories (switches for resistive and inductive loads, motors)
- switches in distributions with 3 and 5 conductors with PE a N terminals

GUIDE FOR AUXILIARY SWITCH SP

Auxiliary switch SP can be mounted to all types of switches K..J, due to increased number of switching poles from three to four or five. For correct mounting, following conditions have to be observed:

1. For switches K16J use auxiliary switch SP16, for switches K25J use auxiliary switch SP25
For switches K32J use auxiliary switch SP32, for switches K40J use auxiliary switch SP40
For switches K63J use auxiliary switch SP63
2. Auxiliary switches with terminals marked 7 – 8 are mounted to the right side of switches K..J, auxiliary switches with terminals marked 9-10 to the left side of switches K..J.
3. Auxiliary switches SP with screw head from the front of the device (front of the device is marked with SEZ logo) are intended for attaching on mounting plate or DIN rail, i.e. for switches K..JL. Auxiliary switches with screw head from the back side of the device are intended for switches K..J, i.e. for gripping the switch from the front side.

Guide for mounting of SP:

1. Put contacts of the switch K..J to the closed position, i.e. handle in position „I“.
2. Slide the auxiliary switch onto switch K..J in the way that projections are directed to apertures of K..J. Slightly push the side of SP and both devices will join together.
3. The function of the device can be checked by changing the position of the handle of the switch to „I“ and „0“ and checking the closing and opening of the contacts of SP.

GUIDE FOR NON-SWITCHING POLE „N“ AND „PE“

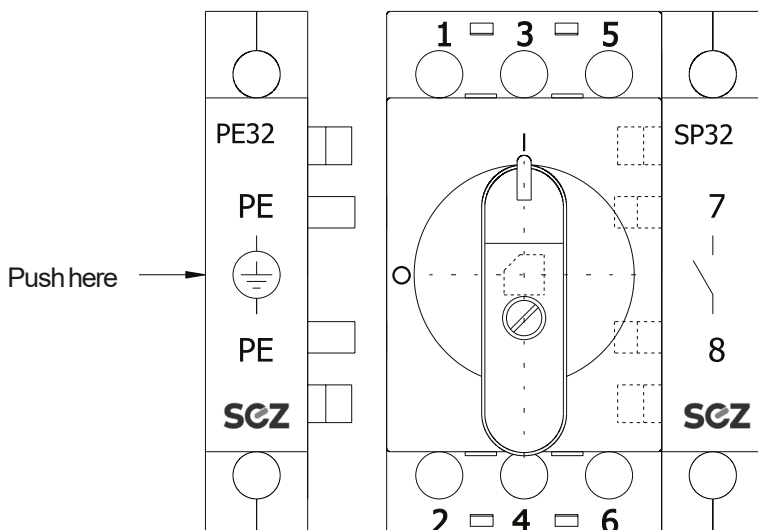
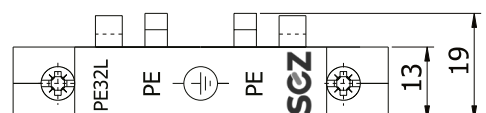
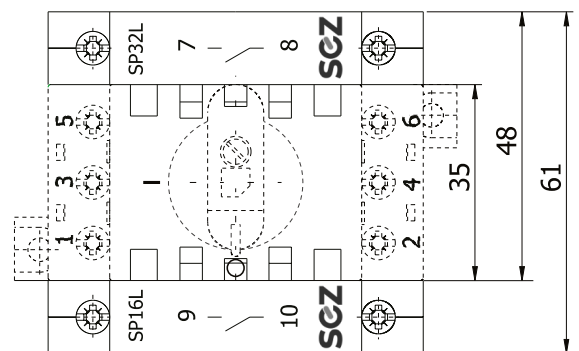
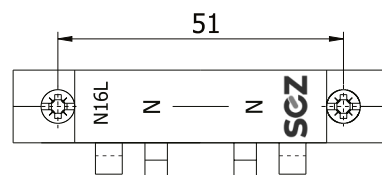
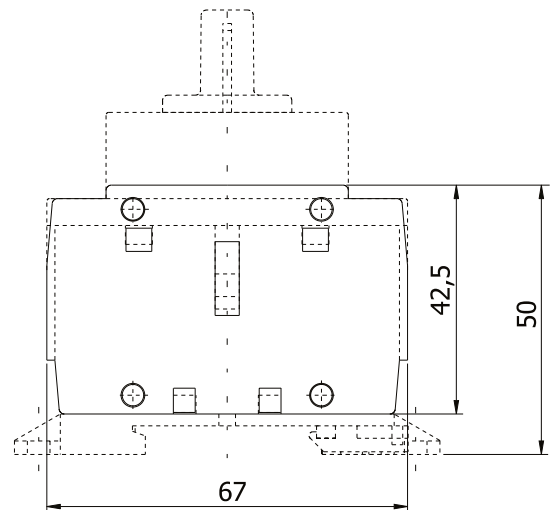
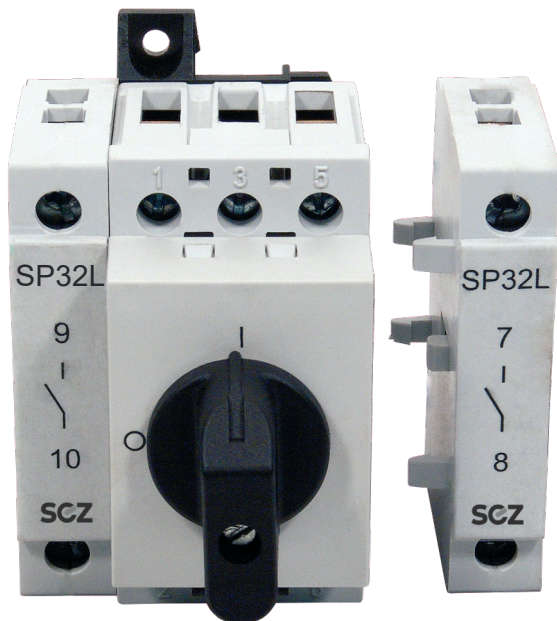
Non-switching pole „N“ and „PE“ can be mounted to all types of switches K..J, , due to increased number of terminals of the switch K..J for gripping the conductors N and PE.

For correct mounting, following conditions have to be observed:

1. For switches K16J use non-switching pole N16 or PE16 and for switches K25J use non-switching pole N25 or PE25.
For switches K32J use non-switching pole N32 or PE32 and for switches K40J use non-switching pole N40 or PE40.
For switches K63J use non-switching pole N63 or PE63.
2. Non-switching poles with terminals marked N-N are mounted to the right side of switches K..J, non-switching poles with terminals marked PE-PE to the left side of switches K..J.
3. Non switching poles N a PE with screw head from the front of the device (front of the device is marked with SEZ logo) are intended for attaching on mounting plate or DIN rail, i.e. with marking of the switch K..JL. Non-switching poles with screw head from the back side of the device are intended for switches K..J, i.e. for gripping the switch from the front side.

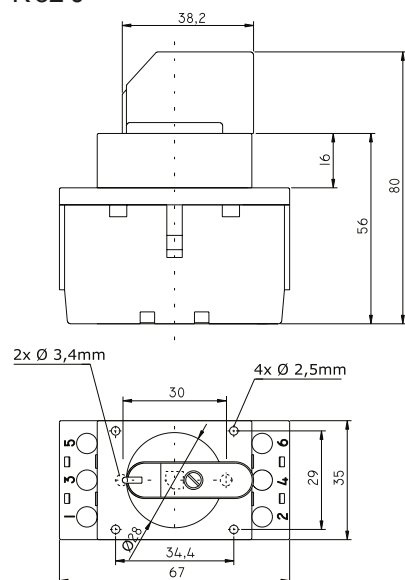
Guide for mounting of N a PE:

Slide the non-switching pole N, or PE onto the switch K..J in the way that projections are directed to apertures of K..J. Slightly push the side of N or PE and both devices will join together.

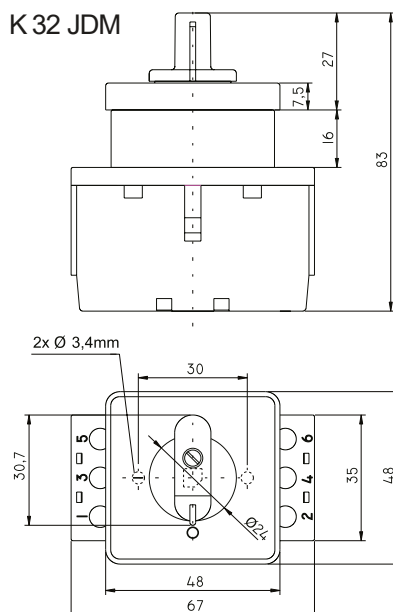


Dimensional drawing

K 32 J



K 32 JDM



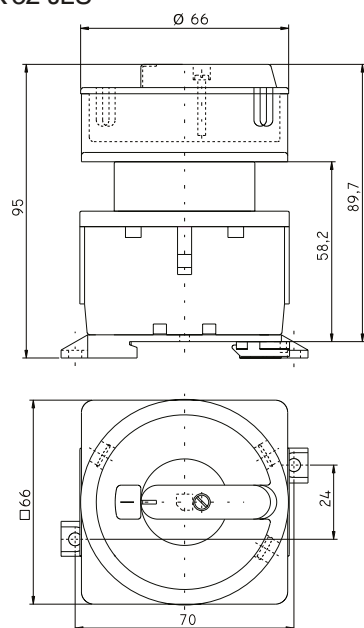
K 32 JD



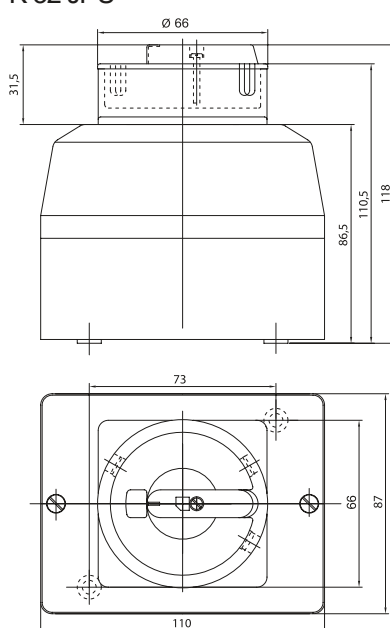
K 32 JM



K 32 JLU



K 32 JPU



K 32 JLMS



K 32 JLU



K 32 JU



K 32 JPU



FOR CAM SWITCHES S 63 - 160 J

Winch 6x6

FOR CAM SWITCHES S 6 - 40 J, SWITCHES K 16 - 32 J

Winch 5x5

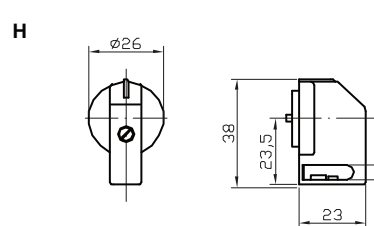
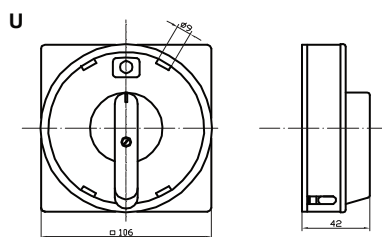
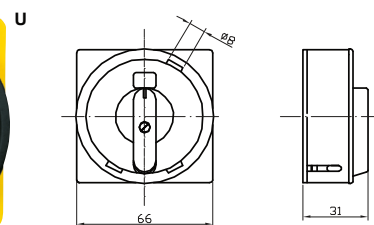
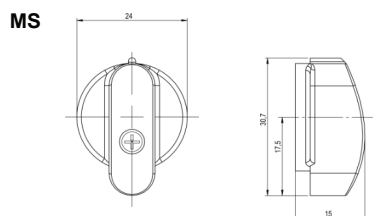
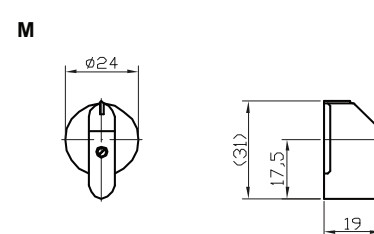
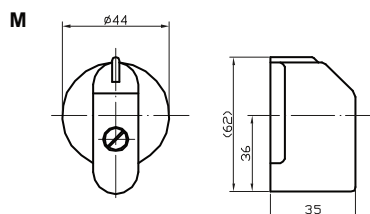
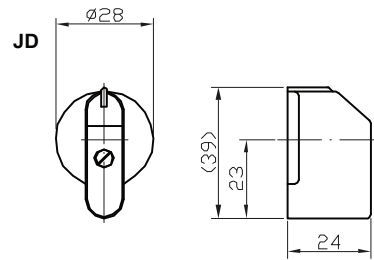
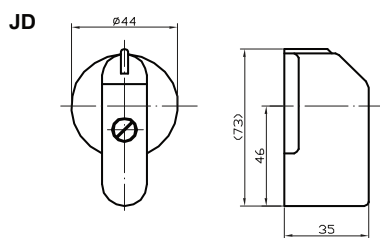
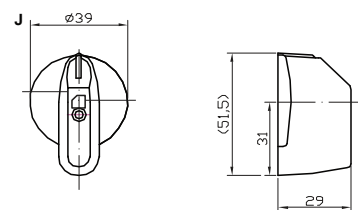
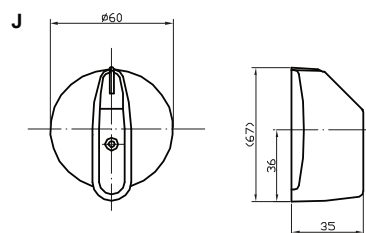


TABLE OF THE ORDERING NUMBERS FOR SPARE PARTS FOR SWITCHES

handle name	symbol	Ordering number			
		Switches S63 - 160 J		Switches S6 - 40 J K16 - 40 J	
		black	red	black	red
middle handle	J	1100846	1100847	1100870	1100871
middle handle	JD	1010500	1101550	1100524	1100525
small handle	M	1105982	1105983	1029002	1029003
small handle special	MS	-	-	1029061	1029062
handle for locking cilindric	U	1005901	1104774	1100436	1100437
handle for locking small	H	-	-	1029000	1029001

Note: In type sign of cam switches is signed of the red handle - R

SWITCHES IN EMBEDDED BOX S25JEP, K32JEP

Description and technical data:

- switch in plastic box designed to be used for connection of electric heaters, boilers etc. can be used in household or in industry
- protection IP 65, clamps and contacts are protected from the event of direct connection with protection degree IP20
box installation into panel, wall, etc.
- there is possibility to add two pairs of two cable bushings Pg16 or Pg21, which are not a part of basic product package
- in accordance STN EN 60 947-3 (EN 60947-3, IEC60947-3, ČSN EN60947-3)

- variants: S25JEPF with cam switch and signal lamp
S25JEP with cam switch
K32JEPF with cam switch and signal lamp
K32JEP with cam switch

- colour variant: white
1-dark brown
2-tawny(beige)
3-black

Switch type	S 25 JEP	K 32 JEP
Rated insulation voltage $U_i(V)$	500	690
Rated impulse withstand voltage $U_{imp}(kV)$	4	4
Rated thermal current $I_{th}(A)$	25	32
Rated operating power kW AC3/AC23 400V, 500V	7,5/11	11
Rated operating current $I_e(A)$ AC23	400V	19,8
	500V	16
		32

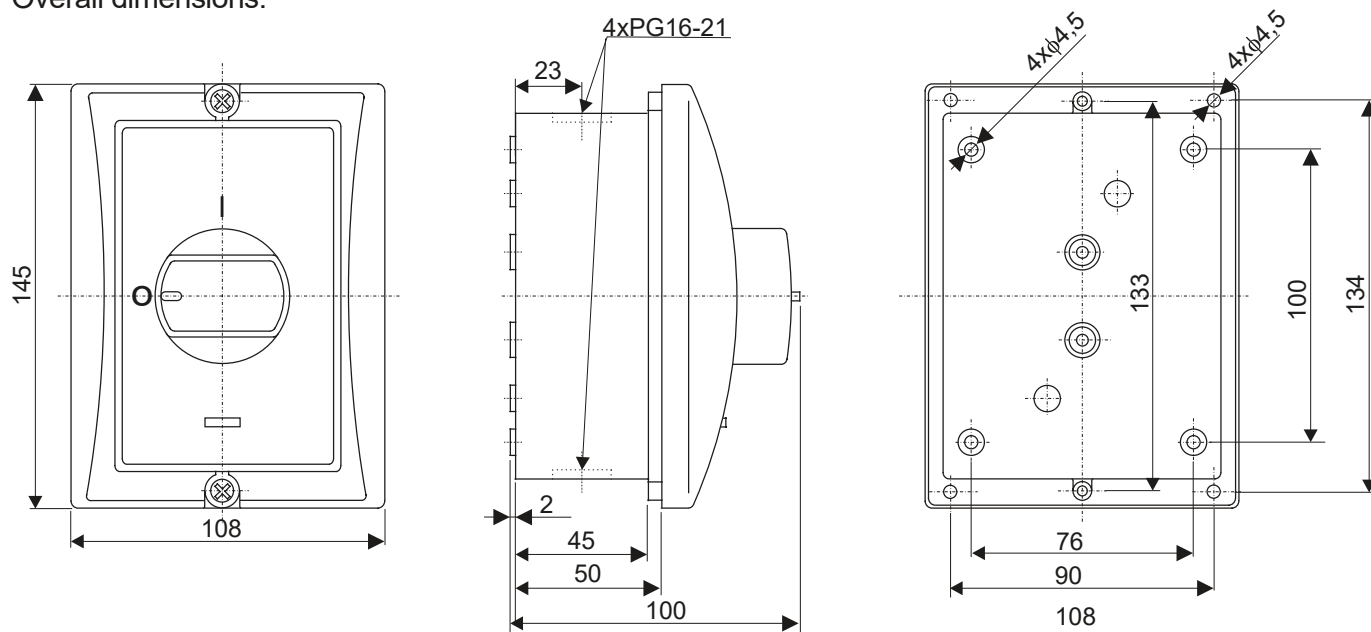
S 25 JEPF 1103 B4 - 1

		Cover color (white cover without marking)
		Wiring Diagram Number (Compatible with J Series Cam Switches)
	Plastic design with signal light (white)	
Switch type with rated current		



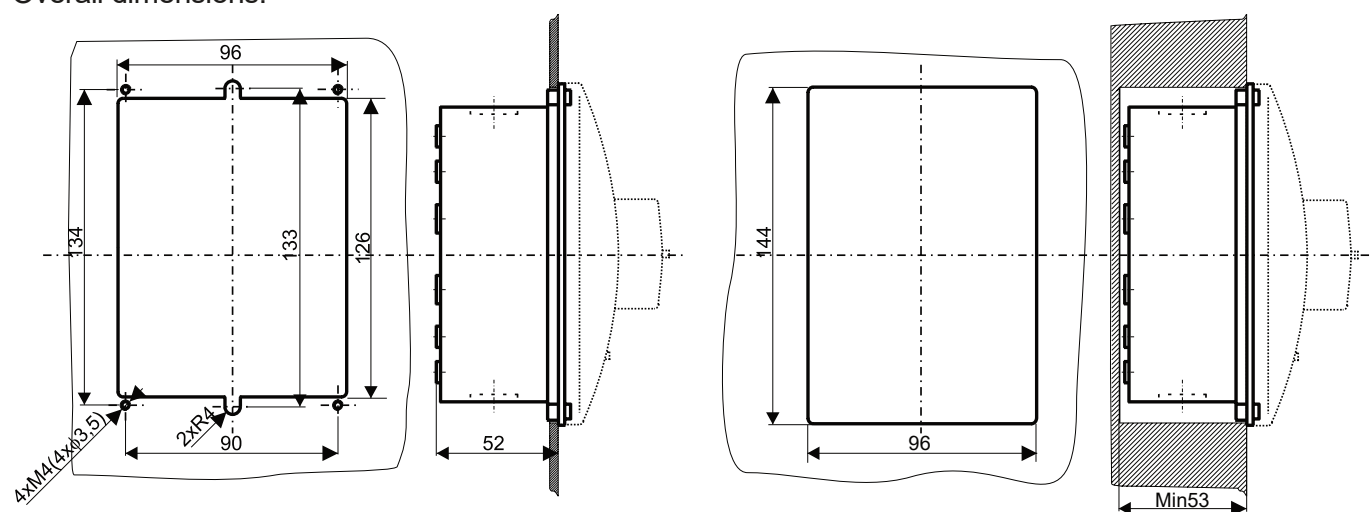
Switches in embedded box S25JEP,K32JEP

Overall dimensions:

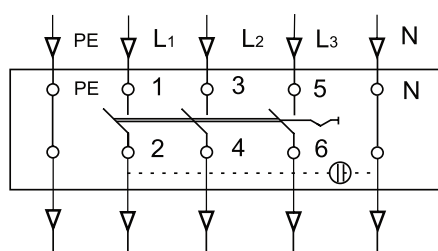


Wall-mounted switches in enclosures: S25JEP-N, K32JEP-N, S25JEPF-N, K32JEPF-N

Overall dimensions:



Switching diagram:



Gear Mechanism for Two or Three Cam Switches

Description:

The gear mechanism is used to control two or three cam switches with a rated current up to 25 A. The mechanism, consisting of insulated gears, is housed in an insulating case, which ensures protection against dangerous contact. The gear mechanism operates on the principle of controlling plastic gears with self-locking switching positions operated by a single lever on a common shaft, and the mechanism is enclosed in a two-part housing made of insulating plastic material. The mechanism can be used where there is insufficient installation depth for the switches. It also finds its application in cases where it is necessary to switch more than 24 contacts (12-chamber switch).

The gear mechanisms are characterized by:

- The switching angle is preferably 90° (30°, 45°, 60°).
- The rotation angle of the coupled cam switches must be the same.
- Cam switches must have the same number of switching positions.
- Depending on the type of mechanism, cam switches of the mechanical design type "J," S6-10J, S16-25J in the number of 2 or 3 can be connected using screws.
- An angled approach to the cam switch terminals with a protection degree of IP20 is maintained.
- The switch can be positioned horizontally or vertically.
- The technical parameters of the cam switches are listed in the SEZ catalog.
- The possibility of using cam switch extensions (e.g., a lockable lever).
- The type of electrical schemes for cam switches with the gear mechanism is according to the customer's requirements.
- Basic electrical schemes can be found in the catalog.
- Other electrical schemes are processed based on a specification sheet.
- Panel mounting can be done using self-tapping screws C3.9x16 through the front plate or mounting with M4 metric thread screws outside the front plate.
- Panel mounting holes should be made according to the sketch in the version with a front plate.
- For the version with two coupled switches, a front plate of 48x48 mm or 66x66 mm can be used.
- For the version with three coupled switches, only a front plate of 66x66 mm can be used.
- The picture shows gear mechanisms with two and three switches placed one below the other (in a vertical position) in length L for two switching chambers.

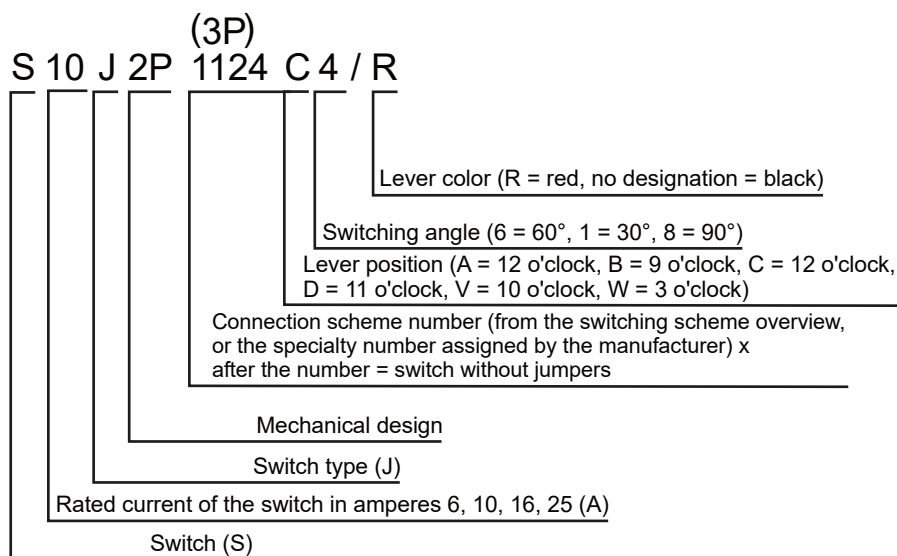
Example of Implementation

New mechanical design 2P and 3P.

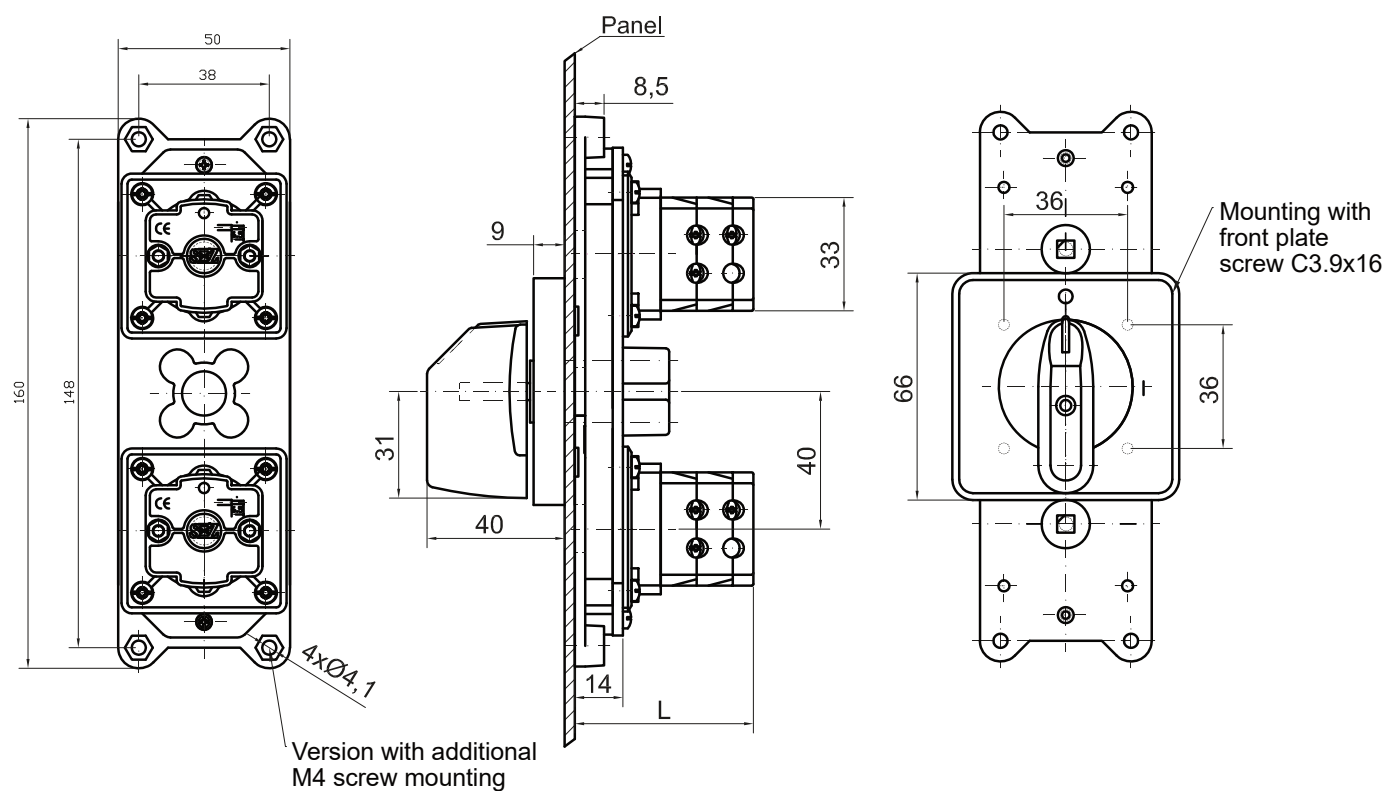
The example shows the design of two switches with a rated current of 10 A with an electrical scheme 1124, i.e., 2x12-pole switch with a switching angle of 90 degrees with the position of the red lever (R) at 12 o'clock.

It is recommended to implement the gear mechanism with switches based on a technical specification after consultation with the manufacturer, especially to clarify the designation of the switches.

Example of Type Designation:

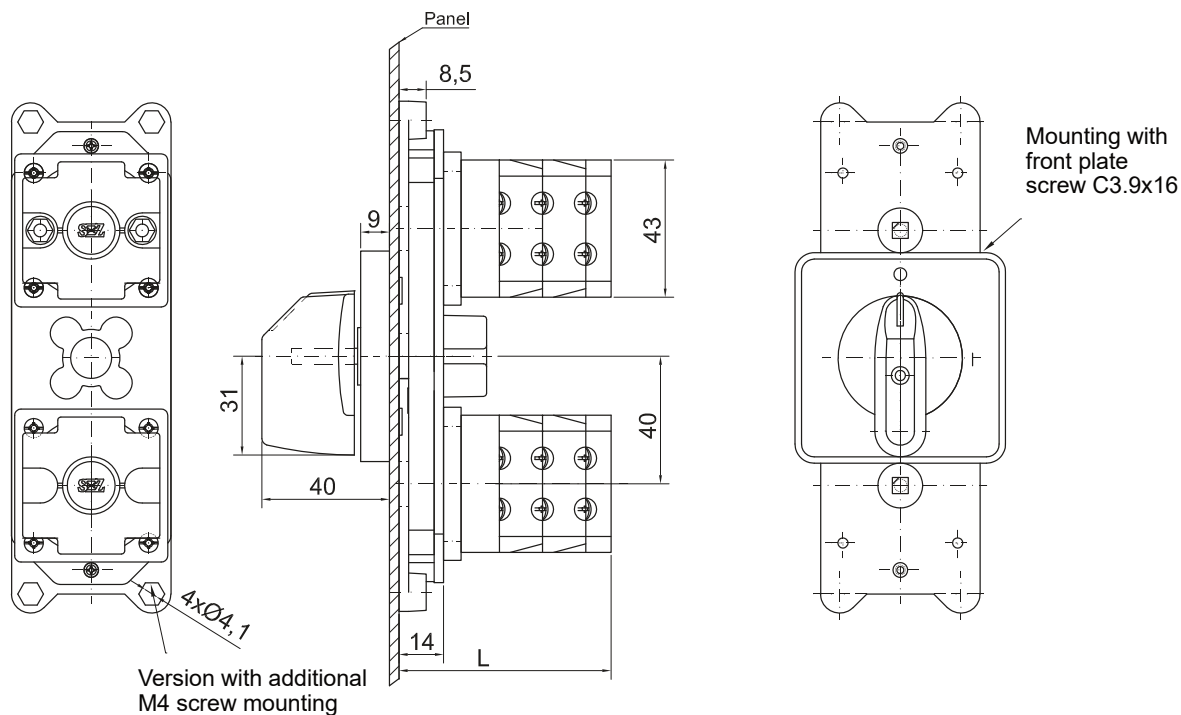


Dimensional Sketch:



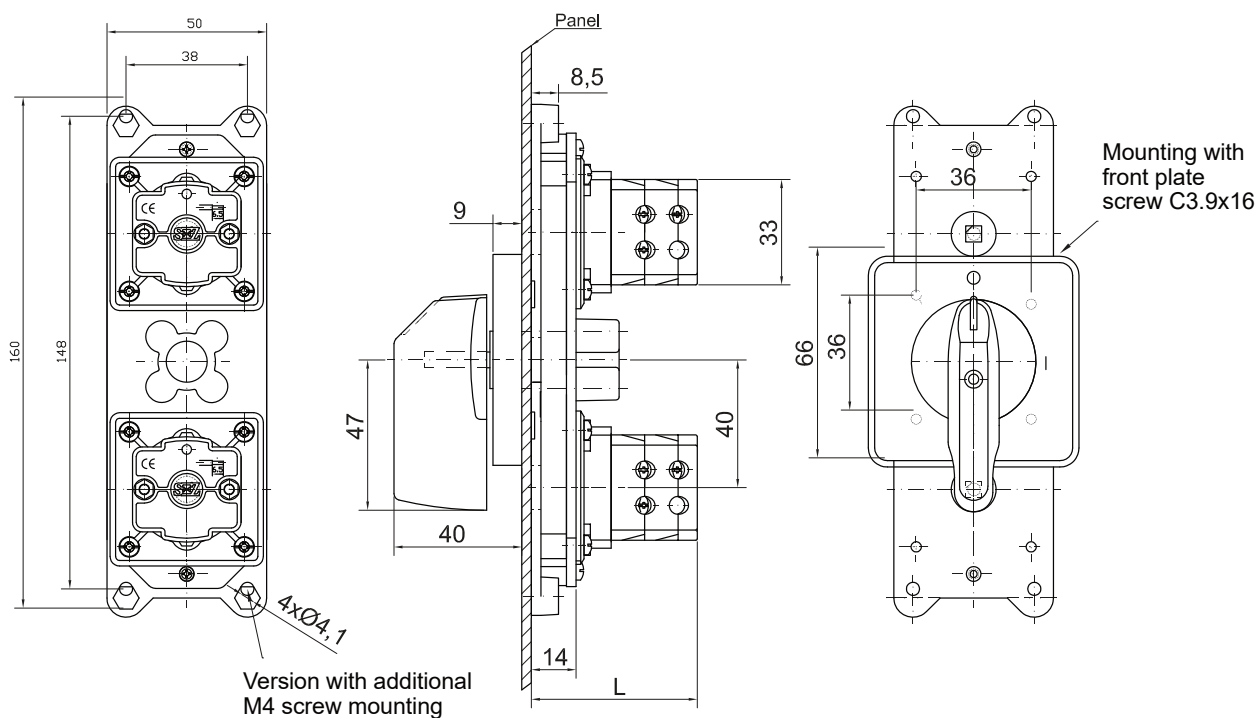
Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	41,5	52	62,5	73	83,5	94	104,5	115	125,5	136	146,5	157

Fig. 1 Gear mechanism with S6-10J switches and a 66x66 mm front plate



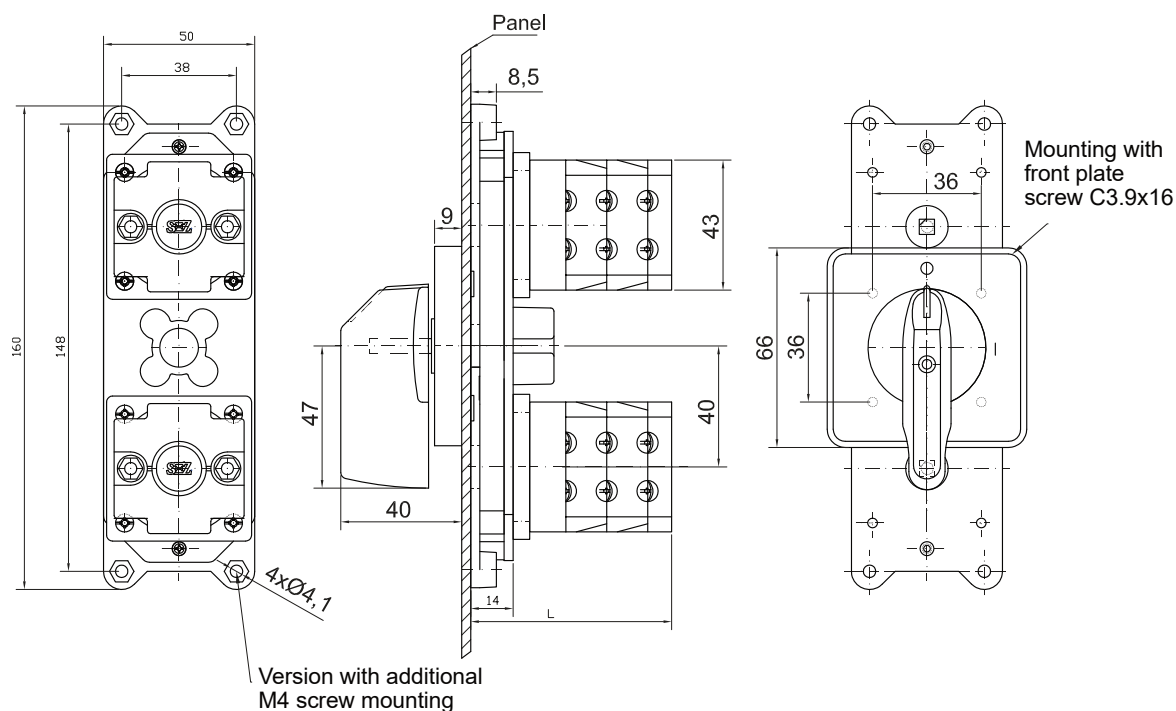
Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	53	66,5	80	93,5	107	120,5	134	147,5	161	174,5	188	201,5

Fig. 2 Gear mechanism with S16-25J switches and a 66x66 mm front plate



Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	41,5	52	62,5	73	83,5	94	104,5	115	125,5	136	146,5	157

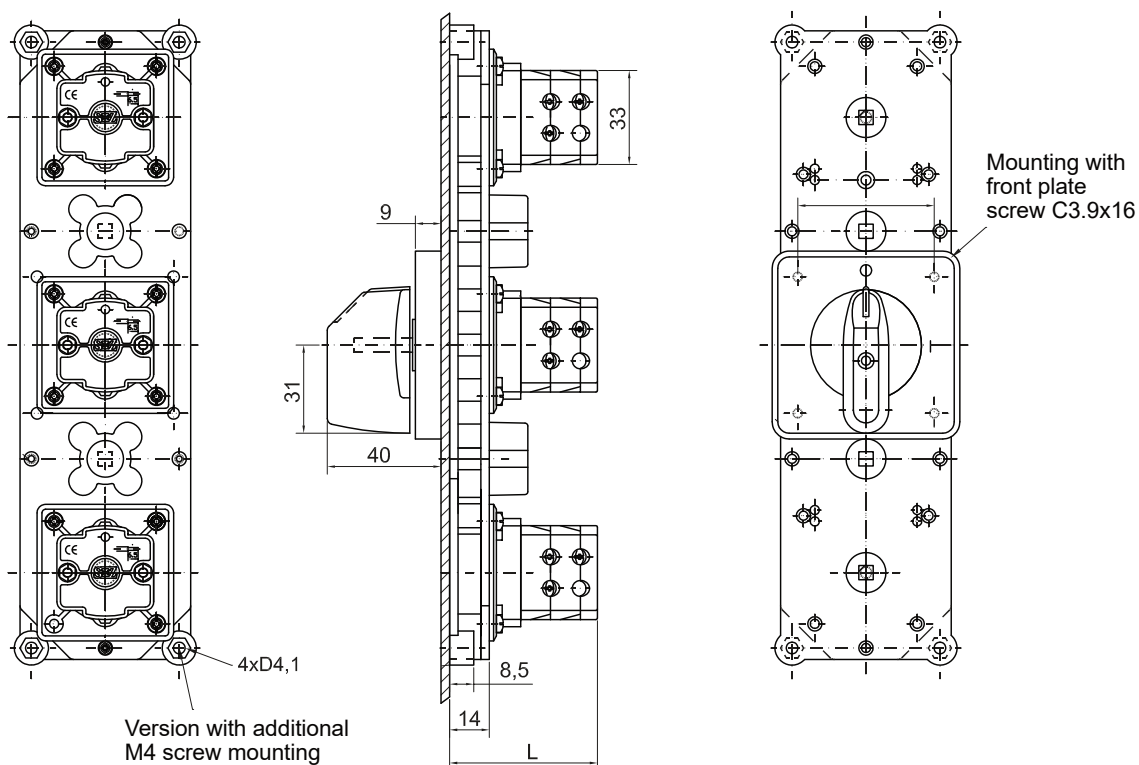
Fig. 3 Gear mechanism with S6-10J switches, a 66x66 mm front plate, and a longer lever



Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	53	66,5	80	93,5	107	120,5	134	147,5	161	174,5	188	201,5

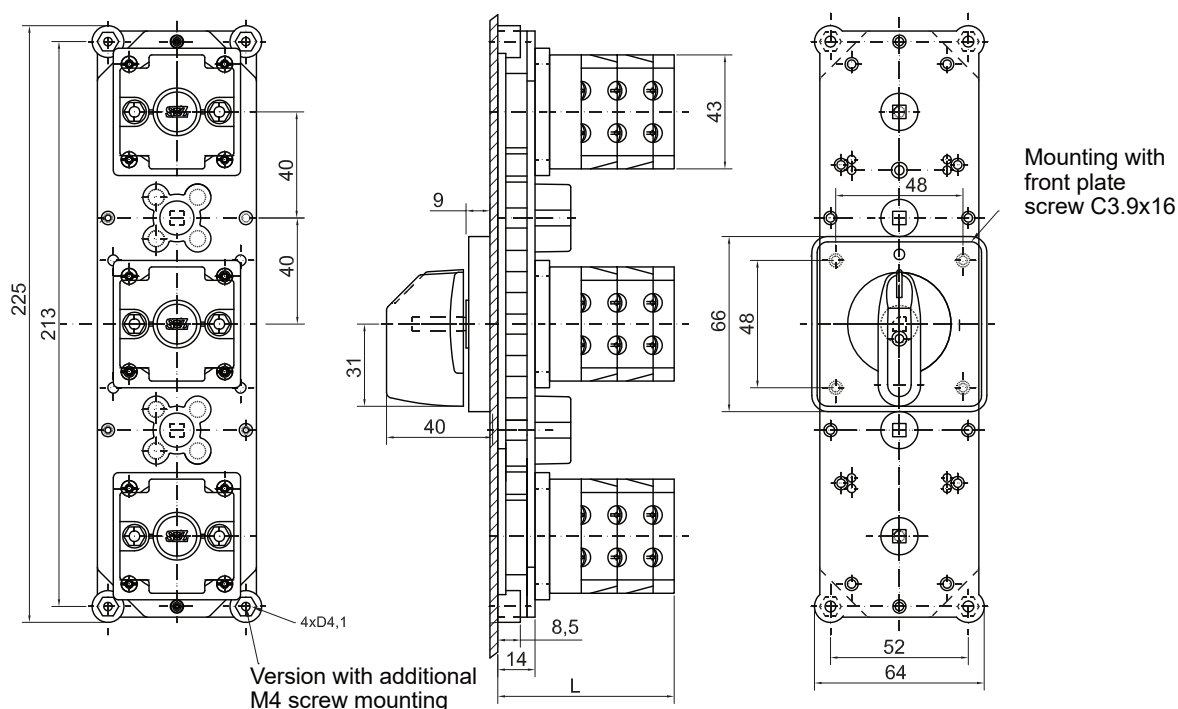
Fig. 4 Gear mechanism with S16-25J switches, a 66x66 mm front plate, and a longer lever

Gear mechanism for three cam switches



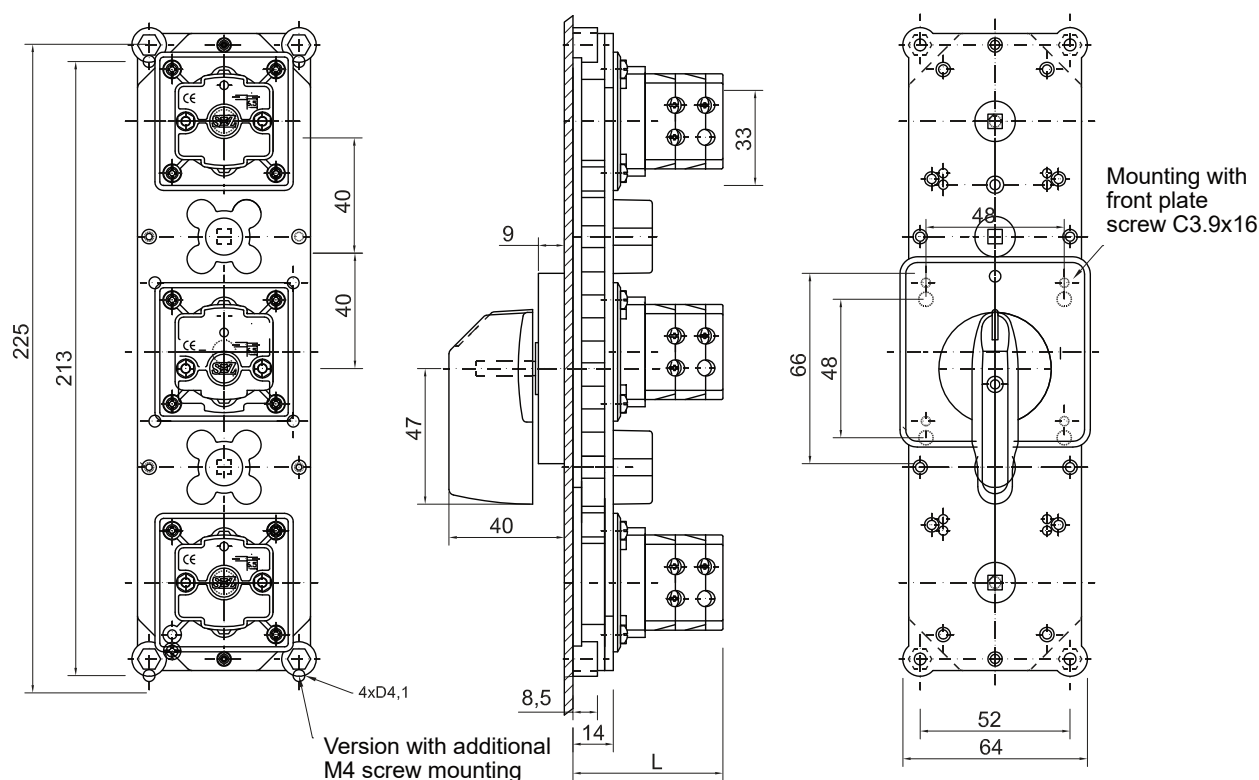
Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	41,5	52	62,5	73	83,5	94	104,5	115	125,5	136	146,5	157

Fig. 5 Gear mechanism with three S6-10J switches and a 66x66 mm front plate



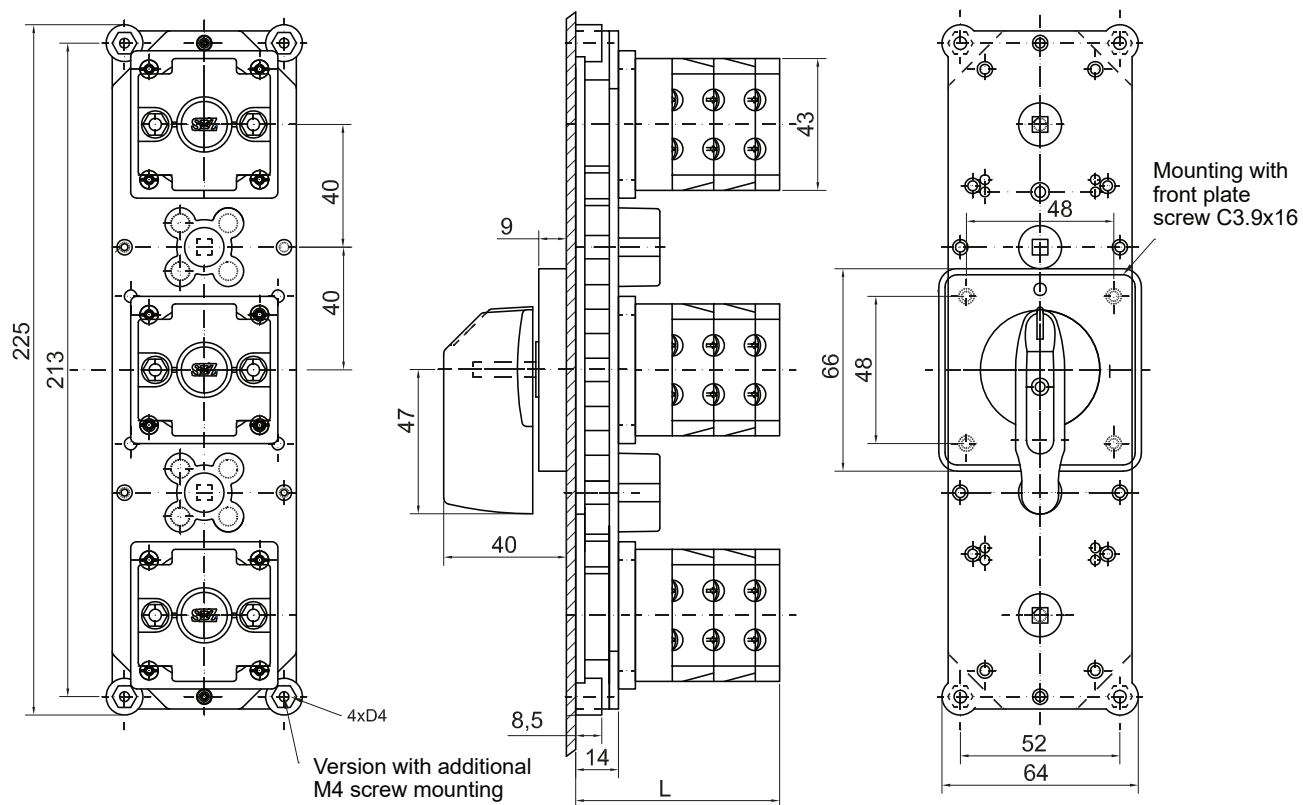
Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	41,5	52	62,5	73	83,5	94	104,5	115	125,5	136	146,5	157

Fig. 6 Gear mechanism with three S16-25J switches and a 66x66 mm front plate



Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	53	66,5	80	93,5	107	120,5	134	147,5	161	174,5	188	201,5

Fig. 7 Gear mechanism with three S6-10J switches, a 66x66 mm front plate, and a longer lever



Number of Chambers	1	2	3	4	5	6	7	8	9	10	11	12
Length L (mm)	53	66,5	80	93,5	107	120,5	134	147,5	161	174,5	188	201,5

Fig. 8 Gear mechanism with three S16-25J switches, a 66x66 mm front plate, and a longer lever

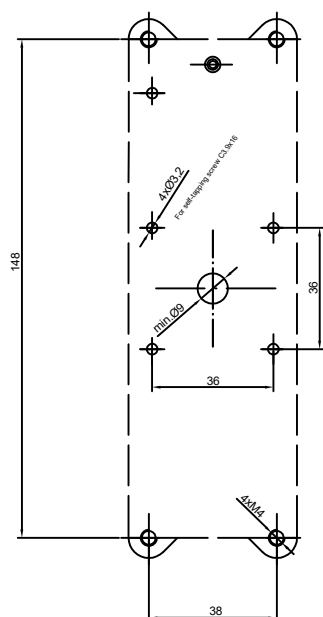


Fig. 9 Panel mounting 2P

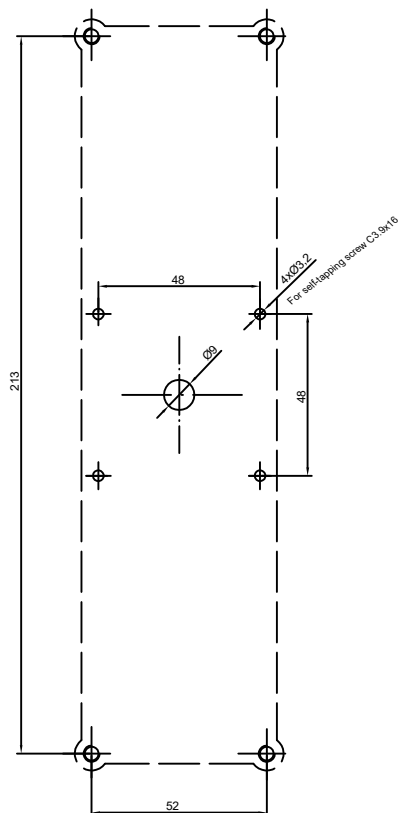


Fig. 10 Panel mounting 3P

Conversion of S25V Switches to S25J

Conversions of cam switches

Cam switches S25 V	Cam switches S25 J	Cam switches S25 V	Cam switches S25 J
S25V 01 P0	S25J 1103 A6	S25VL 05	S25JA 9552 C6
S25V 01 P1	S25JD 1103 A6	S25VL 06	S25JA 2203 C6
S25V 01 P3	S25JOA 1103 A6	S25VJ 01	S25JI 1103 A6
S25V 01 P7	S25JOAZ 1103 A6	S25VJ 02	S25JI 9151 C6
S25V 02 P0	S25J 9151 C6	S25VJ 03	S25JI 9551 A6
S25V 02 P1	S25JD 9151 A6	S25VJ 04	S25JI 9153 C6
S25V 02 P3	S25JOA 9151 C6	S25VJ 05	S25JI 9552 C6
S25V 02 P7	S25JOAZ 9151 A6	S25VJ 06	S25JI 2203 C6
S25V 03 P0	S25J 9551 C6	S25VLZ 01	S25JAZ 1103 A6
S25V 03 P1	S25JD 9551 A6	S25VLZ 02	S25JAZ 9151 C6
S25V 03 P3	S25JOA 9551 C6	S25VLZ 03	S25JAZ 9551 A6
S25V 03 P7	S25JOAZ 9551 A6	S25VLZ 04	S25JAZ 9153 C6
S25V 04 P0	S25J 9153 C6	S25VLZ 05	S25JAZ 9552 C6
S25V 04 P1	S25JD 9153 A6	S25VLZ 06	S25JAZ 2203 C6
S25V 04 P3	S25JOA 9153 C6	S25VJZ 01	S25JIZ 1103 A6
S25V 04 P7	S25JOAZ 9153 A6	S25VJZ 02	S25JIZ 9151 C6
S25V 05 P0	S25J 9552 C6	S25VJZ 03	S25JIZ 9551 A6
S25V 05 P1	S25JD 9552 A6	S25VJZ 04	S25JIZ 9153 C6
S25V 05 P3	S25JOA 9552 C6	S25VJZ 05	S25JIZ 9552 C6
S25V 05 P7	S25JOAZ 9552 A6	S25VJZ 06	S25JIZ 2203 C6
S25V 06 P0	S25J 2203 C6	S63V 01 P0	S63J 1103 A6
S25V 06 P1	S25JD 2203 A6	S63V 01 P1	S63JD 1103 A6
S25V 06 P3	S25JOA 2203 C6	S63V 01 P3	S63JOA 1103 A6
S25V 06 P7	S25JOAZ 2203 A6	S63V 01 P7	S63JOAZ 1103 A6
S25VZ 01	S25JZ 1103 A6	S63V 02 P0	S63J 9151 C6
S25VZ 02	S25JZ 9151 C6	S63V 02 P1	S63JD 9151 C6
S25VZ 03	S25JZ 9551 A6	S63V 02 P3	S63JOA 9151 C6
S25VZ 04	S25JZ 9153 C6	S63V 02 P7	S63JOAZ 9151 C6
S25VZ 05	S25JZ 9552 C6	S63V 03 P0	S63J 9551 A6
S25VZ 06	S25JZ 2203 C6	S63V 03 P1	S63JD 9551 A6
S25VL 01	S25JA 1103 A6	S63V 03 P3	S63JOA 9551 A6
S25VL 02	S25JA 9151 C6	S63V 03 P7	S63JOAZ 9551 A6
S25VL 03	S25JA 9551 A6	S63V 04 P0	S63J 9153 C6
S25VL 04	S25JA 9153 C6		

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Valid from 01.07.2026

