

Description

Switches S 32, 250, 400 J are a new non-conventional designed rotary switch with switching angle 60° with maximum 6 switching positions.

The control gear of the switch is separated from the control switching part of the device and by turning the control lever it enables quick making and breaking contacts independently of the way of control.

The unit-construction switching part of the device has from one to six switching chambers in which there are disks with movable contacts rollers on the basis of Cu and terminal clamps. Maximum number of switching poles is 12.

Minimum use of metal parts in construction of the switch significantly increases the safety of operation.

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, IEC 60 947-3, EN 60 947-3)

		S 32 J		S 250 J	S 400 J
Rated isolation voltage U_r , 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		v AC 3		v AC 22	v AC 22
	in 500 V	250		450	750
	in 380 V	250		750	900
Working current I_e , A	in 500 V	18		150	200
	in 380 V	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	DC 22
in 110 V=	poles in series	1	6	16	100
		2	12	20	150
		3	16	32	-
in 220 V=	poles in series	1	4	10	40
		2	6	16	100
		3	10	20	-
Connection of conductors, mm ²		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

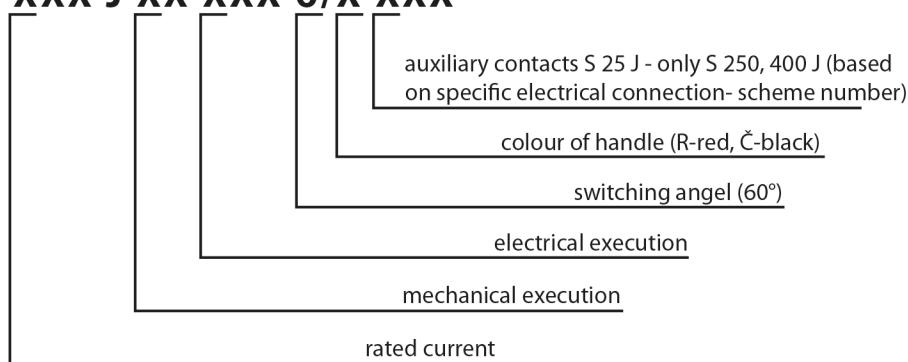
Electrical type

Type	Designation	Marking	No. of switching chambers
S 32 J	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, 400 J	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 required electric type is necessary to be consult with the producer.

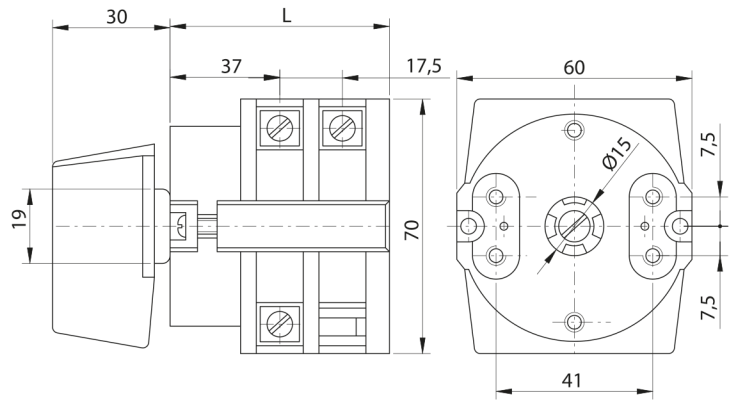
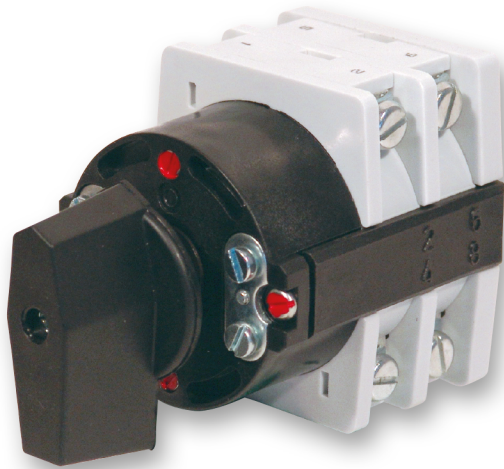
TYPE DESIGNATION

S XXX J XX XXX 6/X XXX

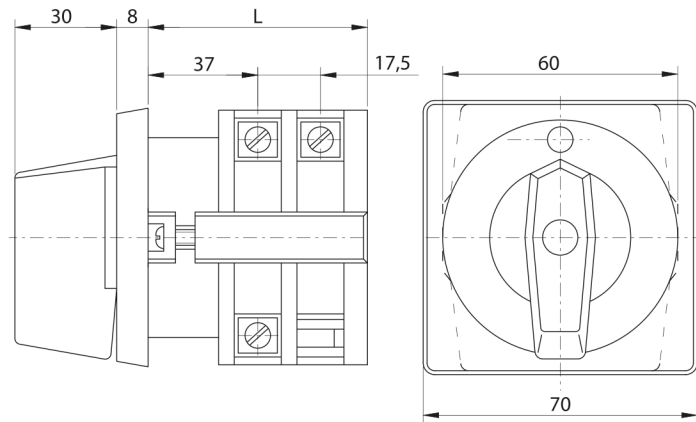
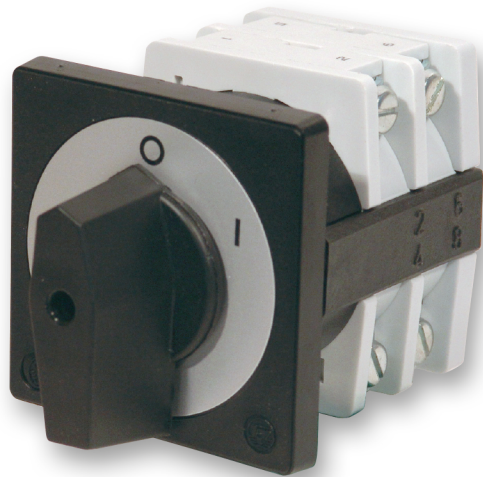


Notes: Auxiliary contacts (switch S 25 J) are mounted to the rear side of switches S 250, 400 J.

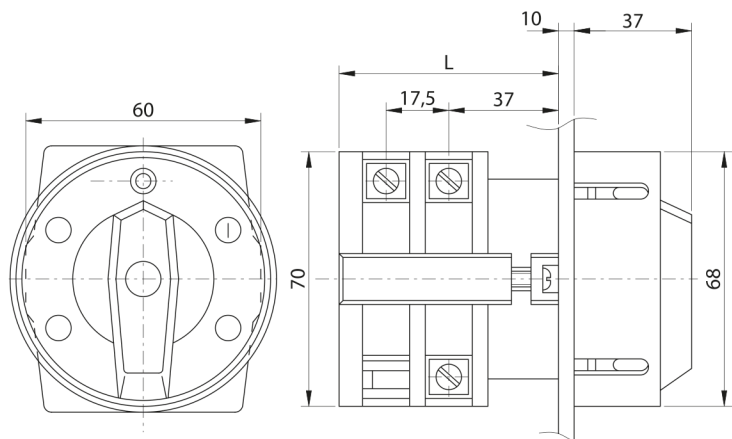
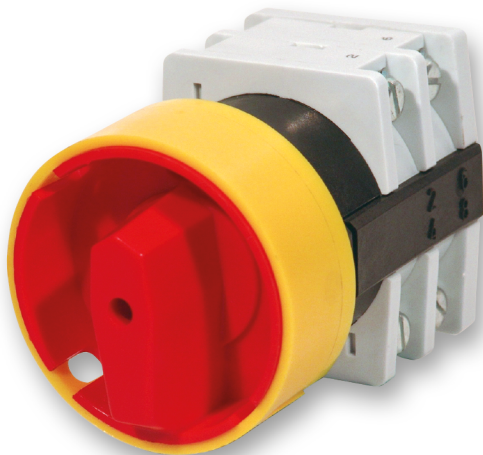
Rotary switch S 32 J



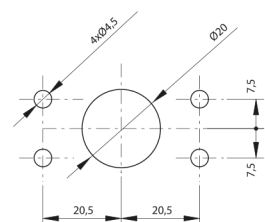
Rotary switch S 32 JD



Rotary switch S 32 JVZ

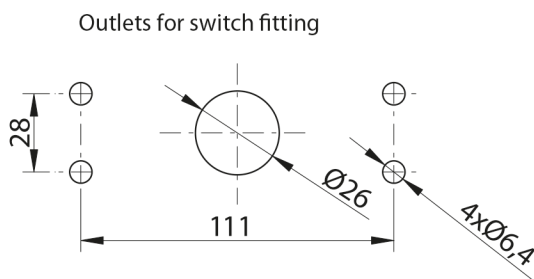
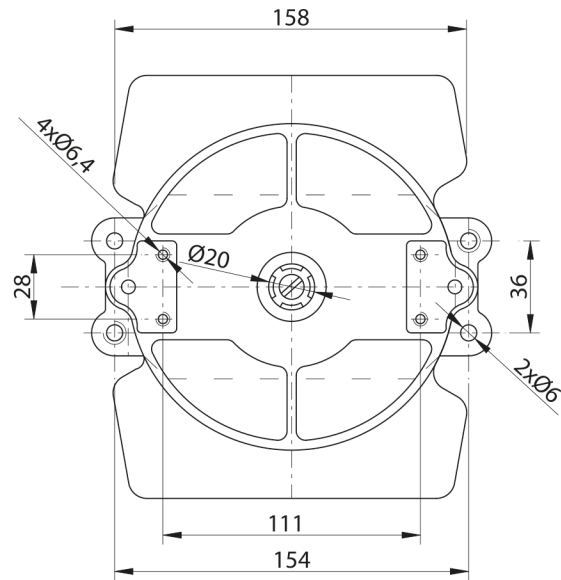
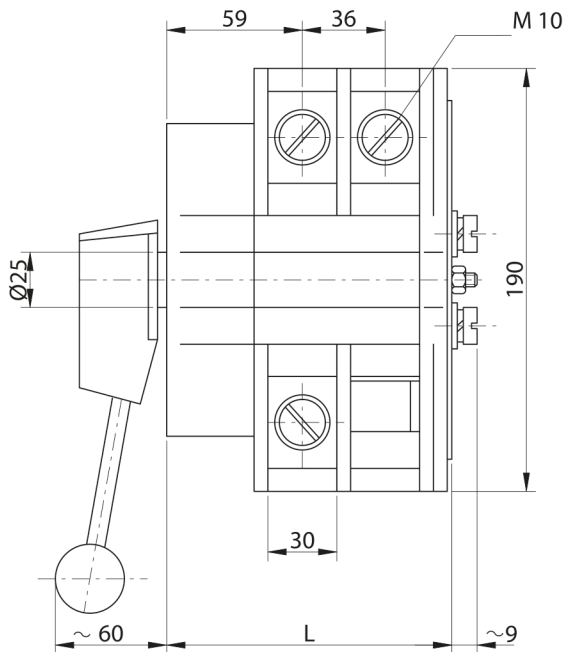


Outlets for switch fitting

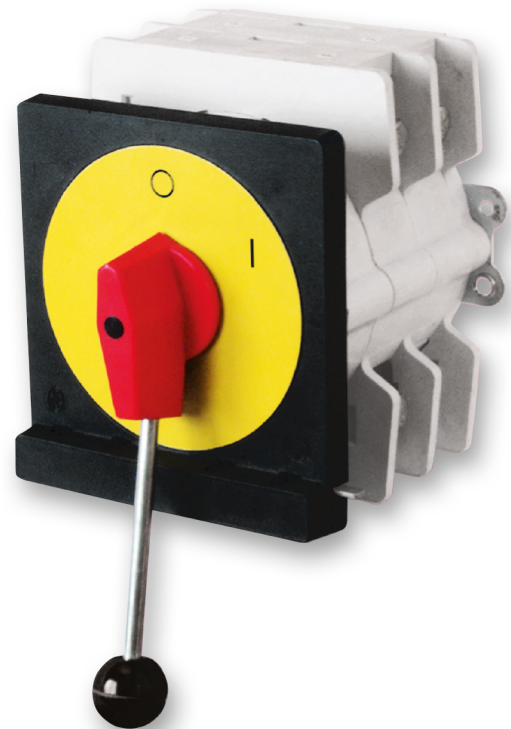


Number of chambers	1	2	3	4	5	6
L	51	68	86	103	121	138

Rotary switch S 250, 400 J



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



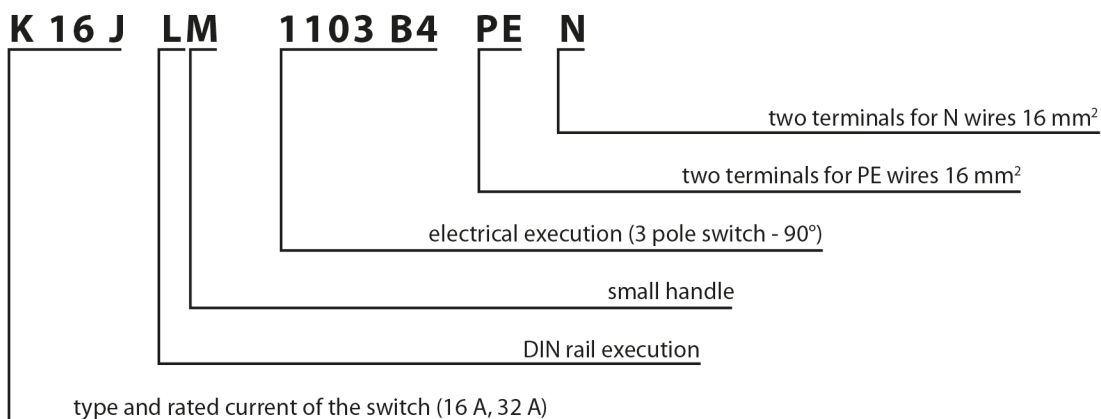
Fastening:

- 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

Use

Compact power switches K16J and K32J are 2 modules, 3poles switches of rated current 16A and 32A 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 and K32J 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 operatings elements, mechanical executions and numeric designation of electrical schemes are identical with cam switches S16J and S25J.

Example of type designation:



Technical data

TYPE		K16J	K32J
Standards		STN EN 60947-3	
Rated insulating voltage U_i	V	690	690
Rated impulse voltage U_{imp}	kV	4	4
Rated thermal current $I_{th} - I_{the}$	A	16	32
Output in AC3 at 500 V~ (motors)	kW	7,5	11
Rated operating current I_e v AC 23 A – 500 V~	A	16	32
Rated switching-on capacity	A	160	320
Rated switching-off capacity	A	128	256
Conditional short-circuit current with fuse 16, 35 A	kA	6	6
Mechanical endurance		100 000 cykles	100 000 cykles
Max. cross section of conductors	mm ²	16	16
Protection degree		IP 20	
		IP 40 from the front panel	
Switching angle		90°	
Ambient temperature	°C	-30 till +55	
Mounting		on panel, DIN rail 35 x 7,5	
Rated operating current I_e (A) at DC 22/21	48 V	16	32
	110 V	1	1
	220 V	0,5	0,5

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