

# Cam switches series S6 - 160 J



- Wide range of ampere values and switching schemes
- Short delivery time for special designs
- IP 20 protection as standard
- Quality of construction - polycarbonate + GF - UV stability
- Mechanical resistance
- Access to terminals at a 45° angle

Cam switches series S 6, 10, 16, 25, 32, 40, 63, 100, 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 S 6, 10 J - size of the switching element 34x33x(10,5) mm  
**size II** switches S 16, 25 J - size of the switching element 43x43x(13,5) mm  
**size III** switches S 32, 40 J - size of the switching element 56x53x(16) mm  
**size IV** switches S 63 J - size of the switching element 66x66x(18,5) mm  
**size V** switches S 100, 160 J - size of the switching element 77x84x(21) mm

- 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.

## CAM SWITCHES SERIES S..J :

- They are in accordance with EN 947-3, (EN 60 947-3, IEC 60 947-3), EN 60 204-1, VDE 0660
- 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)

## Use:

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

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Type of switch:		S6J	S10J	S16J	S25J	S32J	S40J	S63J	S100J	S160J
Rated insulation voltage $U_i$ , V *		500	500	690 **	690 **	690	690	690	690	690
Impulse withstand voltage $U_{imp}$ , kV		4	4	4	4	6	6	6	6	6
Rated thermal current $I_{th}$ , A		6	10	20	25	32	40	63	100	150
Rated operational current $I_e$ , A, AC-21 A; AC-1		6	10	16	25	32	40	60	100	150
Rated operational power, kW / rated operational current $I_e$ , A										
AC-3 short armature motor ; 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	10 / 56,8	13 / 73,8
	3 phase 220-240V	1,5	2,5	3	4,5	7	7,7	8,5	17	23
	380-440 V	2,5/4,5	3,5 / 6,3	4 / 7,2	7,5 / 13,5	12 / 17,3	13/18,8	15 / 27	30 / 54	40 / 72
	500 V	2,5	3,5	4	7,5	12	13	15	30	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	13 / 73,8	18 / 102
	3 phase 220-240V	1,8	3	4	5,5	10	12,5	17	23	30
	380-440 V	3,3/6	5,5/10	7,5 / 13,5	11 / 19,8	17,5/32	22/40	30 / 54	40 / 72	55 / 99
	500 V	3,3	5,5	7,5	11	22	27	30	40	55
Rated DC operational current $I_e$ , A										
- DC	24 V	6/4	10/8	16/8	25/8	32/12	34/12	63/25	100/32	150/63
(one switching contact)	48 V	3,7/2	6/4	6/4	6/4	25/10	25/10	25/16	32/20	32/20
DC - 21A / DC - 22A	110 V	0,7/0,2	1/0,3	1/0,3	1/0,3	4/3	4/3	4/3	5/4	5/4
(resistive load/DC motors)	220 V	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	1,2/0,5	1,2/0,5
Rated conditional short circuit current $I_{cn}$ , kA		3	4	5	5	10	10	8	10	10
with fuse gG,A		6	10	16	25	32	40	63	100	160
Rated short time withstand current - 1 sec $I_{cw}$ , A		160	200	220	500	800	1000	1200	1500	2000
Rated short circuit making capacity $I_{cm}$ , A		320	400	400	500	800	1000	1200	1500	1600
Mechanical endurance (operations)		106	106	106	106	3x105	3x105	3x105	3x105	105
Terminals, mm <sup>2</sup>		0,5-2,5	0,5-2,5	1-4	1,5-4	2,5-10	2,5-10	6-16	16-50***	16-50 ***
Terminal screw		M3	M3	M4	M4	M5	M5	M5	M6x0,75	M6x0,75
Control winch		● 5	● 5	● 5	● 5	● 5	● 5	● 6	● 6	● 6

