



Rotary Cam Switches

Rated: 10A - 315A,AC

Design and Functionality:

Rotary cam switches are manually operated control switches for main and auxiliary circuits with up to 24 contacts. They feature double break, silver alloy (gold optional) contacts with various ratings and high interrupting capacity for long life and reliable operation.

- Switching angles of 30°, 45°, 60° and 90°
- Up to 12 switching positions can be provided.
- Forced open contacts.
- Terminal screws in open position.
- Finger-protected (degree of protection up to IP20)
- Short-circuit rating
- Fulfills the load break requirements up to 690 volt.
- Designed, manufactured and tested to:

UL	508
CSA	22.2, No. 14
IEC	60947 and 60204-1
EN	60204-1

Applications

Rotary cam switches offer ideal features for use as:

- ON-OFF switches
- Changeover switches
- Multi-step switches
- Instrument switches
- Voltage Change switches
- Shore-OFF-Gen switches



Mounting Options



Front Mounting

Available as Control switch, ON-OFF switch, Multi-step switch, Changeover switch, Motor switch, Main/Emergency-Off switch or as Main switch.

- Single hole mounting
- Two hole mounting
- Four hole mounting
- Wall mounting with plaster depth box



Base Mounting

Available as Control switch, ON-OFF switch, Multi-step switch, Changeover switch, Motor switch, Main/Emergency-Off switch or as Main switch.

- DIN Rail mounting
- Four hole mounting



Enclosed Switches

Available as Control switch, ON-OFF switch, Multi-step switch, Changeover switch, Motor switch, Main/Emergency-Off switch or as Main switch.

- Insulated enclosure

Rotary Cam Switches



PC&S products are manufactured under a total quality system that provides total engineering integrity. Products have been engineered to satisfy specifications, performance, reliability and life cycle to exacting standards.

PC&S strives to meet customer requirements and exceed expectations. We do this through monitoring and measuring our process and product, customer satisfaction, internal auditing, analysis of production data, continual improvement including corrective and preventative action. Our quality management systems are certified in accordance with ISO 9001:2000 standards.

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Technical data

General

	P110	M220 P220	M221* P221*	P225	M225 P226*	T225	S432	S440	S606	S608	S612	S825
Standards	UL 508, CSA 22.2, No. 14, IEC 60947, EN 60947, IEC 60204, EN 60204											
Mechanical lifespan	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶	>10 ⁶
Max. operating frequency /h	50	50	50	50	50	50	50	50	50	50	50	50
Climatic resistance	damp heat, constant, to DIN IEC 60068-2-3 damp heat, cyclic, to DIN IEC 60068-2-30											
Ambient temperature												
open	min/max	°C -25/+50										
enclosed	min/max	°C -25/+40										
Mechanical shock resistance (shock duration 20ms)	g	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
Rated frequency	Hz	50 to 60 (other frequencies on request)										

Rated data

Operational voltage U _e	V AC	440	690	690	690	690	690	690	690	690	690	690	690	
Impulse withstand voltage U _{imp}	kV	4	6	6	6	6	6	6	6	6	6	6	6	
Uninterrupted current I _u / I _{th} / I _{the}	A	10	20	20	25	25	32	50	63	80	100	160	315	
Load carrying capacity in intermittent operation, class 12	AB	60%/40%/25% DF=1,3/1,6/2 x I _e												
Short-circuit rating														
Max. fuse	gL	10	20	20	25	25	32	50	63	80	100	160	315	
Conditional short-circuit current	kA _{eff}	3	10	10	10	10	15	20	20	25	25	25	25	
Isolating characteristics acc. to EN 60947	bis ... V AC	440	690	690	690	690	690	690	690	690	690	690	690	
Switching angle	30°/45°/60°/90°													
Contacts (current paths)	max	16	24	24	24	24	24	24	24	24	24	24	24	
Terminal capacity														
solid or stranded	min	mm ²	0,75	1,0	1,0	1,5	1,5	2,5	2,5	4	6	10	10	185 ¹⁾
	max	mm ²	1,5	2,5	2,5	4,0	4,0	6,0	10	16	25	35	70	185 ¹⁾
flexible or multiwired including ferrule	min	mm ²	0,75	1,0	1,0	1,5	1,5	1,5	2,5	2,5	6	10	10	185 ¹⁾
	max	mm ²	1,5	2,5	2,5	2,5	2,5	4,0	6,0	10	16	25	50	185 ¹⁾
American Wire Gauge	AWG	16	12	12	10	10	10	6	4	4	1/0	2/0	350MCM	
Operational current I _e														
AC-21A	A	10	20	20	25	25	32	50	63	80	100	160	315	
AC-22A	220-500 V	A	10	20	20	25	25	32	50	63	80	100	160	315
	660-690 V	A	—	20	20	25	25	32	50	63	80	80	125	125
UL / CSA	300V AC	A	10	20	20	25	25	35	55 ¹⁾	70 ¹⁾	95 ¹⁾	110 ¹⁾	175 ¹⁾	240
General Use	600V AC	A	—	—	20	—	25	35	55 ¹⁾	70 ¹⁾	95 ¹⁾	110 ¹⁾	175 ¹⁾	240
Operational power at 50-60 Hz, 3 pole														
UL / CSA	110-120 V AC	HP	0,5	1	1	1,5	1,5	3	5	7,5	10	10	15	25
	208 V AC	HP	0,5	2	2	5	5	7,5	7,5	7,5	10	15	15	30
	220-240 V AC	HP	0,5	2	2	5	5	7,5	10	15	15	15	15	30
	440-480 V AC	HP	—	—	5	—	10	10	20	30	30	30	40	50
	550-600 V AC	HP	—	—	5	—	10	10	25	40	50	50	50	50
AC-23A	220-240 V	kW	1,8	4	4	5,5	5,5	7,5	11	15	30	30	37	75
	380-440 V	kW	3	7,5	7,5	11	11	15	22	30	45	55	75	132
	500 V	kW	—	7,5	7,5	11	11	15	30	45	55	55	90	132
	660-690 V	kW	—	7,5	7,5	11	11	15	30	37	45	45	55	55
AC-3	220-240 V	kW	1,5	3	3	4	4	5,5	11	15	15	22	22	37
	380-440 V	kW	2,2	5,5	5,5	7,5	7,5	11	22	30	30	37	45	55
	500 V	kW	—	5,5	5,5	7,5	7,5	11	22	30	30	37	45	55
	660-690 V	kW	—	5,5	5,5	7,5	7,5	11	22	30	30	37	45	55

* use this version for 600V AC (UL/CSA) applications

¹⁾ with terminal extensions for cable lug connection

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