

Technical Data

Rotary Cam Switches

General			P110	M220 P220	M225 P225	T225	S432	S440	S606	S608	S612	S825		
Standards			IEC 60947, EN 60947, IEC 60204, EN 60204, UL 508, CSA 22.2, No. 14											
Mechanical lifespan Max. operating frequency/ h			>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 50	>10 ⁶ 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											
Mounting position			as required											
Mechanical shock resistance (shock duration 20ms)			g	>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		
Impulse withstand voltage U _{imp}			kV	4	6	6	6	6	6	6	6	6		
Overvoltage category Pollution degree				III 3	III 3	III 3	III 3	III 3	III 3	III 3	III 3	III 3		
Uninterrupted current I _u / I _{th} / I _{the}			A	10	20	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	25	32	50	63	80	100	160	315	
Conditional short-circuit current			kA _{eff}	3	10	10	15	20	20	25	25	25	25	
Isolation characteristics acc. to EN 60947			up to...V AC	440	690	690	690	690	690	690	690	690	690	
Switching angle Contacts (current paths)			max	30°/ 45°/ 60°/ 90° 16	24	24	24	24	24	24	24	24		
Current heat loss per contact at I _u			W	0,3	0,65	0,75	1,0	3,0	3,5	4,0	5,0	11	28,5	
Terminal capacity														
solid or stranded		min	mm ²	0,75	1,0	1,5	2,5	2,5	4	6	10	95 ²⁾	185 ²⁾	
		max	mm ²	1,5	2,5	4,0	6,0	10	16	25	35	95 ²⁾	185 ²⁾	
flexible or multiwired including ferrule		min	mm ²	0,75	1,0	1,5	1,5	2,5	2,5	6	10	95 ²⁾	185 ²⁾	
		max	mm ²	1,5	2,5	2,5	4,0	6,0	10	16	25	95 ²⁾	185 ²⁾	
American Wire Gauge			AWG	16	12	10	10	6	4	4	1/0	4/0 350MCM		
Operational current I _e AC-21A			A	10	20	25	32	50	63	80	100	160	315	
AC-22A		220-500V	A	10	20	25	32	50	63	80	100	160	315	
		660-690V	A	-	20	25	32	50	63	80	80	125	125	
UL/ CSA General Use			600V AC	A	-	20 ¹⁾	25 ¹⁾	35	55	70	95	110	175	240

¹⁾ at 600V AC use types M221(M220)/ P221(P220)/ P226(P225)

²⁾ with terminal extensions for cable lug connection

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Operational power at 50-60 Hz, 3 phase												
AC-23A	220-240V	kW	1,8	4	5,5	7,5	11	15	30	30	37	75
	380-440V	kW	3	7,5	11	15	22	30	45	55	75	132
	500V	kW	-	7,5	11	15	30	45	55	55	90	132
	660-690V	kW	-	7,5	11	15	30	37	45	45	55	55
AC-3	220-240V	kW	1,5	3	4	5,5	11	15	15	22	22	37
	380-440V	kW	2,2	5,5	7,5	11	22	30	30	37	45	55
	500V	kW	-	5,5	7,5	11	22	30	30	37	45	55
	660-690V	kW	-	5,5	7,5	11	22	30	30	37	45	55
UL/ CSA	110-120V AC	HP	0,5	1	1,5	3	5	7,5	10	10	15	25
	208V AC	HP	0,5	2	5	7,5	7,5	7,5	10	15	15	30
	220-240V AC	HP	0,5	2	5	7,5	10	15	15	15	15	30
	440-480V AC	HP	-	5 ¹⁾	10 ¹⁾	10	20	30	30	30	40	50
	550-600V AC	HP	-	5 ¹⁾	10 ¹⁾	10	25	40	50	50	50	50

Rated data (auxiliary contacts)

Operational voltage U _e	V AC		440	500	500	500	500	500	500	500	500	500
Uninterrupted current I _u / I _{th} / I _{the}	A		10	20	25	32	50	63	80	100	160	315
Operational current I _e												
AC-21A	A		10	20	25	32	50	63	80	100	160	315
AC-15	110-240V	A	2,5	6	6	14	16	16	16	16	16	16
	380-440V	A	1,5	4	5	6	7	7	7	7	7	7
	500V	A	0,8	2	2,5	3	3,5	3,5	3,5	3,5	3,5	3,5
UL/ CSA General Use	600V AC	A	-	20 ¹⁾	25 ¹⁾	35	55	70	70	110	175	240
Heavy Pilot Duty			B300	A600 ¹⁾	A600 ¹⁾	A600	A600	A600	A600	A600	A600	A600
Short circuit rating Max. fuse	gL		10	20	25	32	50	63	80	100	160	315
Conditional short-circuit current	kA _{eff}		3	10	10	15	20	20	25	25	25	25
Terminal capacity flexible or multiwired	min	mm ²	0,75	1	1,5	1,5	2,5	2,5	6	10	95 ²⁾	185 ²⁾
	including ferrule max	mm ²	1,5	2,5	2,5	4,0	6,0	10	16	25	95 ²⁾	185 ²⁾
American Wire Gauge	AWG		16	12	10	10	6	4	4	1/0	4/0	350MCM

Conformity

The Rotary Cam Switches conform to the regulations of the EC guideline 73/23 EEC 'Electrical Equipment for application within certain voltage limits' - specified as Directive for Low Voltage Devices.

The conformity is proved by the complete compliance of the harmonized European Standards

- EN 60947-1
- EN 60947-3
- EN 60947-5-1
- EN 60204-1.

The Sälzer Electric products are developed, manufactured and tested according to these standards.

The CE marking on all our products prove the conformity to the directives.



The Rotary Cam Switches are approved according to UL 508 and CSA 22.2, No. 14.



¹⁾ at 600V AC use types M221(M220)/ P221(P220)/ P226(P225)

²⁾ with terminal extensions for cable lug connection