

Technical Data

Disconnect Switches

General			H216	H220	H226	H233	H406	H408	H410	H412	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 ⁵ 50	>10 ⁵ 50	>10 ⁵ 50	>10 ⁵ 50	>10 ⁵ 50	>10 ⁵ 50	>10 ⁵ 50	>10 ⁵ 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	>25	>25	>25	>25	>25	>25	>25	>25	>10	>10	
Rated frequency			Hz	50 to 60 (other frequencies on request)										
Rated data														
Operational voltage U _e			V AC	690	690	690	690	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	690	
Impulse withstand voltage U _{imp}			kV	6	6	6	6	8	8	8	8	6	6	
Overvoltage category Pollution degree				III 3	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	20	25	32	40	63	80	100	125	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	20	25	35	40	63	80	100	125	160	315	
Conditional short-circuit current			kA _{eff}	15	15	15	15	25	25	25	25	25	25	
Isolation characteristics acc. to EN 60947			up to...V AC	690	690	690	690	1000	1000	1000	1000	690	690	
Switching angle Contacts (current paths)			max	90° 8	90° 8	90° 8	90° 8	90° 8	90° 8	90° 8	90° 8	90° 8	90° 8	
Current heat loss per contact at I _u			W	0,8	0,8	1,8	2,1	3,0	4,1	5,5	6,9	11	28,5	
Terminal capacity														
solid or stranded	min	mm ²	1	1	1	1	4	4	4	4	95 ²⁾	185 ²⁾		
	max	mm ²	10	10	10	10	50	50	50	50	95 ²⁾	185 ²⁾		
flexible or multiwired including ferrule	min	mm ²	0,75	0,75	0,75	0,75	2,5	2,5	2,5	2,5	95 ²⁾	185 ²⁾		
	max	mm ²	6	6	6	6	35	35	35	35	95 ²⁾	185 ²⁾		
American Wire Gauge			AWG	8	8	8	8	1/0	1/0	1/0	1/0	4/0	350MCM	
Operational current I _e														
AC-21A	AC-21A	A	20	25	32	40	63	80	100	125	160	315		
	AC-22A	220-500V 660-690V	A	20 16	25 20	32 32	40 40	63 63	80 80	100 100	125 100	160 125	315 125	
UL/ CSA General Use			600V AC	A	20	25	30	40	63	80	100	100	175	240

¹⁾ 1000 V, AC-20, no load switching

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	3	4	5,5	7,5	15	18,5	22	30	37	75
	380-440V	kW	5,5	7,5	11	15	22	30	37	45	75	132
	500V	kW	5,5	7,5	11	15	22	30	37	45	90	132
	660-690V	kW	5,5	7,5	11	15	22	30	37	45	55	55
AC-3	220-240V	kW	2,2	3	4	5,5	11	15	22	30	22	37
	380-440V	kW	3,7	5,5	7,5	11	18,5	22	30	37	45	55
	500V	kW	3,7	5,5	7,5	11	18,5	30	37	45	45	55
	660-690V	kW	3,7	5,5	7,5	11	18,5	22	30	37	45	55
UL/ CSA	110-120V AC	HP	1	1,5	2	3	5	7,5	10	15	15	25
	208V AC	HP	2	3	5	7,5	10	15	15	15	15	30
	220-240V AC	HP	2	3	5	7,5	15	20	25	30	15	30
	440-480V AC	HP	3	5	10	15	30	30	30	40	40	50
	550-600V AC	HP	5	5	10	15	30	30	30	40	50	50

Rated data (auxiliary contacts)

Operational voltage U_e		V AC	500	500	500	500	500	500	500	500	500	500
Uninterrupted current $I_U / I_{th} / I_{the}$		A	10	10	10	10	16	16	16	16	20	20
Operational current I_e												
AC-21A	110-240V	A	10	10	10	10	10	10	10	10	20	20
	380-440V	A	2,5	2,5	2,5	2,5	6	6	6	6	6	6
	500V	A	1,5	1,5	1,5	1,5	4	4	4	4	4	4
AC-15	110-240V	A	1	1	1	1	1,5	1,5	1,5	1,5	2	2
	380-440V	A	1	1	1	1	1,5	1,5	1,5	1,5	2	2
	500V	A	1	1	1	1	1,5	1,5	1,5	1,5	2	2
UL/ CSA General Use	600V AC	A	10	10	10	10	10	10	10	10	20	20
Heavy Pilot Duty			A600	A600	A600	A600	A600	A600	A600	A600	A600	A600
Short circuit rating Max. fuse		gL	10	10	10	10	16	16	16	16	20	20
Conditional short-circuit current		kA _{eff}	3	3	3	3	3	3	3	3	10	10
Terminal capacity flexible or multiwired			min	mm ²	1	1	1	1	1	1	1	1
including ferrule			max	mm ²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
American Wire Gauge		AWG	14	14	14	14	14	14	14	14	12	12

Conformity

The Disconnect Switches H and S 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 Disconnect Switches H and S are approved according to UL 508 and CSA 22.2, No. 14.

