Technical Data

General		H212	H216	H220	H226	H233	H263	H406	H408	H410	H412	K616	K830
Standards		IEC 60947, EN 60947, IEC 60204, EN 60204, UL 508, CSA 22.2, No. 14											
Mechanical lifespan		$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^6$	$>10^6$
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											
Mounting position		as required											
Mechanical shock resistance (shock duration 20 ms)	g	>10	> 25	> 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	690	690 [1]	690 [1]	690 [1]	690 [1]	690	690
Impulse withstand voltage U_{imp}	kV	4	6	6	6	6	6	8	8	8	8	6	6
Overvoltage category	III	III	III	III	III	III	III	III	III	III	III	III	
Pollution degree		3	3	3	3	3	3	3	3	3	3	3	3
Uninterrupted current $I_u / I_{th} / I_{the}$	A	20	20	25	32	40	63	63	80	100	125	160	315
Load carrying capacity in intermittent operation, class 12	AB	60%/40%/25% DF = 1.3/1.6/2 × I_e											
Breaking capacity													
220 – 240 V	A	150	150	250	300	330	500	500	550	600	800	900	1800
380 – 440 V	A	150	150	250	300	330	500	500	550	600	750	850	1650
500 – 690 V	A	100	100	150	190	220	270	270	285	300	320	340	350
Short-circuit rating Max. fuse	gL	20	20	25	35	40	63	63	80	100	125	160	315
Conditional short-circuit current	kA_{eff}	15	15	15	15	15	15	25	25	25	25	25	25
Isolating characteristics to EN 60947	up to ... V AC	440	690	690	690	690	690	1000	1000	1000	1000	690	690
Switching angle		90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Contacts (current paths)	max	4	8	8	8	8	4	8	8	8	8	8	8
Current heat loss per contact at I_u	W	0.8	0.8	0.8	1.8	2.1	3.0	3.0	4.1	5.5	6.9	11	28.5
Terminal capacity													
solid or stranded min	mm^2	1	1	1	1	1	4	4	4	4	4	95 [2]	185 [2]
solid or stranded max	mm^2	2.5	10	10	10	10	16	50	50	50	50	95 [2]	185 [2]
flexible or multiwire including ferrule min	mm^2	1	0.75	0.75	0.75	0.75	2.5	2.5	2.5	2.5	2.5	95 [2]	185 [2]
flexible or multiwire including ferrule max	mm^2	2.5	6	6	6	6	10	35	35	35	35	95 [2]	185 [2]
American Wire Gauge	AWG	14	8	8	8	8	6	1/0	1/0	1/0	1/0	4/0	350MCM
Thread dimensions for terminal screw		M3,5	M4	M4	M4	M4	M4	M6	M6	M6	M6	M10	M12
Terminal tightening torque min	Nm	0.8	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	10	14
Terminal tightening torque max	Nm	1.5	2.5	2.5	2.5	2.5	2.5	6.0	6.0	6.0	6.0	20	25

[1] 1000 V, AC-20, no load switching
[2] with terminal extensions for cable lug connection

Technical Data

Rated data			H212	H216	H220	H226	H233	H263	H406	H408	H410	H412	K616	K830
Operational current I_e														
AC-21A		A	20	20	25	32	40	63	63	80	100	125	160	315
AC-22A	220 – 500 V	A	20	20	25	32	40	63	63	80	100	125	160	315
	660 – 690 V	A	16	16	20	32	40	63	63	80	100	100	125	125
AC-23A (cos ϕ=0.65) 400 V		A	10	12	16	24	32	47	47	65	80	97	120	285
UL / CSA	300 V AC	A	15	20	25	30	40	60	63	80	100	100	175	240
General Use	600 V AC	A	15	20	25	30	40	60	63	80	100	100	175	240
Operational power at 50 – 60 Hz, 3 phase														
AC-23A	220 – 240 V	kW	3	3	4	5.5	7.5	15	15	18.5	22	30	37	75
	380 – 440 V	kW	5.5	5.5	7.5	11	15	22	22	30	37	45	75	132
	500 V	kW	5.5	5.5	7.5	11	15	22	22	30	37	45	90	132
	660 – 690 V	kW	5.5	5.5	7.5	11	15	22	22	30	37	37	55	55
AC-3	220 – 240 V	kW	2.2	2.2	3	4	5.5	11	11	15	22	30	22	37
	380 – 440 V	kW	3.7	3.7	5.5	7.5	11	18.5	18.5	22	30	37	45	55
	500 V	kW	3.7	3.7	5.5	7.5	11	18.5	18.5	30	37	45	45	55
	660 – 690 V	kW	3.7	3.7	5.5	7.5	11	18.5	18.5	22	30	37	45	55
UL / CSA	110 – 120 V AC	HP	1	1	1.5	2	3	5	5	7.5	10	15	15	25
	208 V AC	HP	2	2	3	5	7.5	10	10	10	15	15	15	30
	220 – 240 V AC	HP	2	2	3	5	7.5	15	15	20	25	30	15	30
	440 – 480 V AC	HP	3	3	5	10	15	30	30	30	30	40	40	50
	550 – 600 V AC	HP	5	5	5	10	15	40	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	500
Uninterrupted current I_u / I_{th} / I_{the}	A	—	10	10	10	10	16	16	16	16	16	20	20
Operational current I_e													
AC-21A	A	—	10	10	10	10	10	10	10	10	10	20	20
AC-15 110 – 240 V	A	—	2.5	2.5	2.5	2.5	6	6	6	6	6	6	6
380 – 440 V	A	—	1.5	1.5	1.5	1.5	4	4	4	4	4	4	4
500 V	A	—	1	1	1	1	1.5	1.5	1.5	1.5	1.5	2	2
UL / CSA General Use 600 V AC	A	—	10	10	10	10	10	10	10	10	10	20	20
Heavy Pilot Duty		—	A600	A600	A600	A600	A600	A600	A600	A600	A600	A600	A600
Short-circuit rating Max. fuse	gL	—	10	10	10	10	16	16	16	16	16	20	20
Conditional short-circuit current	kA_{eff}	—	3	3	3	3	3	3	3	3	3	10	10
Terminal capacity													
flexible or multiwire min	mm^2	—	1	1	1	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	2.5	2.5	2.5
American Wire Gauge	AWG	—	14	14	14	14	14	14	14	14	14	12	12

Conformity

The Disconnect Switches H and K 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.

Salzer 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 K are approved according to UL 508 and CSA 22.2, No. 14.