

Technical Data KG Switches

				KG10	KG20	KG32	KG41	KG64	KG80	KG100	KG125	KG160	KG210	KG250	KG315
				KG10A	KG20A	KG32A	KG41B	KG64B	KG80C	KG100C					
				KG10B	KG20B	KG32B									
Rated Insulation Voltage U _i	IEC/VDE ¹ UL/Canada CEE/NEMKO		V	690	690	690	690	690	690	690	1000 ²	1000 ²	1000 ²	1000 ²	1000 ²
			V	300	600	600	600	600	600	600	600	600	600	600	600
			V	400	500	500	500	500	500	500	-	-	-	-	-
Rated Impulse Withstand Voltage U _{imp} ¹			kV	4	6	6	6	6	6	6	8	8	8	8	8
Rated Thermal Current	IEC/VDE	I _u open = I _{th} I _{the} enclosed	A	20	25	32	40	63	80	100	125	160	200	250	315
			A	20	25	32	40	63	80	100	125	160	200	250	315
	UL/Canada	ON/OFF function Double-throw funct.	A	20	25	30	40	60	80 ³	100 ³	150 ³	200 ³	200 ³	250 ³	300 ³
			A	20	25	30	40	60	80 ³	100 ³	125 ³	160 ³	-	-	-
Rated Operational Current I _e															
AC-21A Switching of resistive loads, including moderate overloads	IEC/VDE		A	20	25	32	40	63	80	100	125	160	200	250	315
AC-22A Switching of combined resistive or low inductive loads, including moderate overloads	IEC/VDE	220 V-500 V 660 V-690 V	A	20	20	32	40	63	80	100	125	160	200	200	250
			A	16	20	32	40	55	65	85	100	100	125	125	140
Ampere-Rating ON/OFF function Double-throw function Resistive or low inductive loads	UL/Canada ⁴ UL/Canada ⁴	600 V 600 V	A	20	25	30	40	60	80 ³	100 ³	150 ³	200 ³	200 ³	250 ³	300 ³
			A	20	25	30	40	60	80 ³	100 ³	125 ³	160 ³	-	-	-
Rated Utilization Category				IEC/VDE											
AC-3 Direct-on-line starting	3 phase 3 pole	220 V-240 V 380 V-440 V 500 V 690 V	kW	2,2	4	5,5	7,5	11	15	18,5	22	30	37	37	45
			kW	3,7	5,5	7,5	11	18,5	22	30	37	45	55	55	75
			kW	3,7	5,5	7,5	15	22	30	37	45	55	75	75	90
			kW	3,7	5,5	7,5	11	15	18,5	22	30	37	45	45	45
AC-23A Frequent switching of motors or other high inductive loads	3 phase 3 pole	220 V-240 V 380 V-440 V 500 V 690 V	kW	3	5,5	5,5	7,5	11	18,5	22	30	30	37	37	55
			kW	5,5	7,5	11	15	22	30	37	45	55	75	90	110
			kW	5,5	7,5	11	18,5	30	37	45	55	75	90	110	132
			kW	5,5	7,5	11	15	18,5	22	30	37	37	45	45	45
DOL-Rating Standard motor load (similar to AC-3)	UL/Canada ⁴ 3 phase 3 pole	120 V 240 V 480 V 600 V	HP	1	1,5	2	3	5	7,5	10	15	20	25	30	40
			HP	2	3	5	7,5	10	20	25	30	40	50	60	75
			HP	-	5	10	15	20	40	50	60	60	75	75	100
			HP	-	5	10	15	20	50	50	60	60	75	75	100
Short Circuit Protection															
Max. fuse size (gL-characteristic)			A	20	35	35	50	63	80	100	125	160	200	250	315
Rated short-time withstand current (1 s-current)			A	130	350	430	500	580	1600	1850	2500	3000	4000	4600	5800
Max. Permissible Wire Gage															
For box terminal	Single-core or stranded wire	mm ² AWG MCM	2,5	6	6	16	16	50	50	95	95	185	185	185	
			12	10	10	6	6	2(1/0)	1/0	3/0	3/0	-	-	-	
			-	-	-	-	-	-	-	-	-	-	350	350	350
	Flexible wire sleeving in accordance with DIN 46228	mm ²	2,5	4	4	10	10	35	35	70	70	120	120	120	
Flexible wire without sleeve	mm ² AWG MCM	2,5	4	4	10	10	35	35	70	70	150	150	150		
		12	10	10	6	6	2	2	2/0	2/0	-	-	-		
		-	-	-	-	-	-	-	-	-	300	300	300		
Cable lug or track must accept connection screw	mm	-	-	-	-	-	-	-	-	M10 x 20	M10 x 20	M12 x 20	M12 x 20	M12 x 20	
		-	-	-	-	-	-	-	-	20	20	25	25	25	
		-	-	-	-	-	-	-	-	25	25	34	34	34	
Ambient Temperature				open at 100 % I _u /I _{th} enclosed at 100 % I _{the} 50 °C during 24 hours with peaks up to 55 °C 35 °C during 24 hours with peaks up to 40 °C											

¹Valid for lines with common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems on request.²Suitable for no load switching applications (AC-20A) above 690 V.³Valid when connected with wire rated for 75 °C.⁴International Standards and Approvals, refer to page 4.