

Selection Data	KG10	KG20	KG32	KG41	KG64	KG80	KG100	KG105	KG125	KG160	KG210	KG250	KG315
	KG10A	KG20A	KG32A	KG41B	KG64B	KG80C	KG100C	KG105C	KG126	KG161	KG211	KG251	KG316
	KG10B	KG20B	KG32B						KG127	KG162	KG212	KG252	KG317

Rated Insulation Voltage U_i IEC/VDE ¹ UL/Canada CEE/NEMKO	V	690	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	600	
	V	400	500	500	500	500	500	500	-	-	-	-	-	-	
Rated Impulse Withstand Voltage U_{imp} ¹	kV	4	6	6	6	6	6	6	6	8	8	8	8	8	
Rated Thermal Current IEC/VDE $I_{u\ open} = I_{th}$ $I_{the\ enclosed}$ UL/Canada ON/OFF function UL/Canada Double-throw function	A	20	25	32	40	63	80	100	125	125	160	200	250	315	
	A	20	25	32	40	63	80	100	125	125	160	200	250	315	
	A	20	25	30	40	60	80 ³	100 ³	125	150 ³	200 ³	200 ³	250 ³	300 ³	
	A	20	25	30	40	60	80 ³	100 ³	115	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	125	160	200	250	315	
	AC-22A Switching of combined resistive or low inductive loads, including moderate overloads IEC/VDE	220 V-500 V	A	20	20	32	40	63	80	100	125	125	160	200	250
	660 V-690 V	A	16	20	32	40	55	65	85	90	100	100	125	125	140
Ampere-Rating ON/OFF function UL/Canada ⁴ Double-throw function UL/Canada ⁴ Resistive or low inductive loads	600 V	A	20 ⁷	25	30	40	60	80 ³	100 ³	125	150 ³	200 ³	200 ³	250 ³	300 ³
	600 V	A	20 ⁷	25	30	40	60	80 ³	100 ³	115	125 ³	160 ³	-	-	-
Rated Utilization Category IEC/VDE AC-3 Direct-on-line starting 3 phase 220 V-240 V 3 pole 380 V-440 V 500 V 690 V	kW	2,2	4	5,5	7,5	11	15	18,5	22	22	30	37	37	45	
	kW	3,7	5,5	7,5	11	18,5	22	30	37	37	45	55	55	75	
	kW	3,7	5,5	7,5	15	22	30	37	45	45	55	75	75	90	
	kW	3,7	5,5	7,5	11	15	18,5	22	22	30	37	40	40	45	
AC-23A Frequent switching of motors or other high inductive loads 3 phase 220 V-240 V 3 pole 380 V-440 V 500 V 690 V	kW	3	5,5	5,5	7,5	11	18,5	22	25	30	30	37	37	55	
	kW	5,5	7,5	11	15	22	30	37	45	45	55	75	90	110	
	kW	5,5	7,5	11	18,5	30	37	45	55	55	75	90	110	132	
	kW	5,5	7,5	11	15	18,5	22	30	30	37	37	45	45	45	
DOL-Rating UL/Canada ⁴ Standard motor load 3 phase (similar AC-3) 3 pole 120 V 240 V 480 V 600 V	HP	1	1,5	2	3	5	7,5	10	15	15	20	25	30	40	
	HP	2	3	5	7,5	10	20	25	30	30	40	50	60	75	
	HP	-	5	10	15	20	40	50	60	60	60	75	75	100	
	HP	-	5	10	15	20	50	50	50	60	60	75	75	100	
Power loss per contact at I_u Resistance to vibration ⁵ Resistance to shock ⁵	W	0,9	0,7	1,1	1	2,2	1,7	2,4	3,8	3,1	5	5	8	12,7	
	C	A	A	A	A	A	A	A	A	C	C	C	C	C	
	C	B	B	B	B	B	B	B	B	C	C	C	C	C	
Short Circuit Protection Max. fuse size (gL-characteristic) Rated short-time withstand current (1 s-current)	A	20	35	35	50	63	80	100	125	125	160	200	250	315	
	A	130	350	430	500	580	1600	1850	2000	2500	3000	4000	4600	5800	
Max. Permissible Wire Gage - Use copper wire only For box terminal Single-core or stranded wire Flexible wire sleeving in accordance with DIN 46228 Flexible wire without sleeve Cable lug or track must accept connection screw Max. width Max. width with protective cover	mm ²	2,5	6	6	16	16	50	50	50	95	95	185	185	185	
	AWG	12	10	10	6	6	1/0	1/0	1/0	3/0	3/0	-	-	-	
	MCM	-	-	-	-	-	-	-	-	-	-	350	350	350	
	mm ²	2,5	4	4	10	10	35	35	35	70	70	120	120	120	
	mm ²	2,5	4	4	10	10	35	35	35	70	70	150	150	150	
	AWG	12	10	10	6	6	2	2	2	2/0	2/0	-	-	-	
	MCM	-	-	-	-	-	-	-	-	-	-	300	300	300	
	mm	-	-	-	-	-	-	-	-	-	M10 x 20	M10 x 20	M12 x 20	M12 x 20	M12 x 20
	mm	-	-	-	-	-	-	-	-	-	20	20	25	25	25
	mm	-	-	-	-	-	-	-	-	-	25	25	34	34	34
Ambient Temperature ⁶ 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 22. ⁵A: min. 4 g, 2-100 Hz, 1,6 mm. B: min. 6 g, 6 ms. C: on request. ⁶Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). ⁷Max. 277 V.

Technical Data

Auxiliary Contacts for KG Switches

Selection Data	KG10	KG20	Auxiliary contacts for:			
	KG10A	KG20B-	KG41-	KG125-	KG210-	
	KG10B	KG32B	KG105C	KG162	KG317	

Rated Insulation Voltage U_i		IEC/VDE UL/Canada	V	690	500	690	690	690
			V	300	600	600	600	600
Rated Thermal Current I_{th}		IEC/VDE/BS UL/Canada	A	10	-	16	16	16
			A	20	10	10	10	10
Rated Operational Current I_o								
AC-21A	Switching of resistive loads, including moderate overloads	IEC/VDE	A	20	10	16	16	16
AC-15	Switching of control devices, contactors, valves etc.	110 V-240 V 380 V-440 V 500 V	A	6	2,5	6	6	6
			A	4	1,5	3	3	3
			A	-	1	1,5	1,5	1,5
Pilot Duty	Heavy	UL/Canada		A300	A600	A600	A600	A600
Ampere-Rating	Resistive or low inductive loads	UL/Canada	A	20 ¹	10	10	10	10
Short Circuit Protection								
	Max. fuse size	(gL-characteristic)	A	20	10	16	16	16
Max. Permissible Wire Gage - Use copper wire only								
	Single-core or stranded wire		mm ²	2,5	1,5	2,5	2,5	2,5
			AWG	12	14	12	12	12
	Flexible wire sleeving in accordance with DIN 46228		mm ²	2,5	1,5	2,5	2,5	2,5
			AWG	12	16	14	14	14

¹Max. 277 V.