Selection Data

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

Rated Insulation Voltage U_i	IEC/VDE[1]	V	690	690	690	690	690	690	690	1000[2]	1000[2]	1000[2]	1000[2]
	SEV	V	660	660	660	660	660	660	660	660	660	660	660
	UL/CSA	V	300	600	600	600	600	600	600	600	600	600	600
	CEE/NEMKO	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
Rated Thermal Current	IEC/VDE I_u open = I_{th}	A	20	25	32	40	63	80	100	125	160	250	315
	I_{the} enclosed	A	20	25	32	40	55/50[5]	80/70[5]	100/80[5]	125	160	250	315
	SEV 380 V	A	16	20	32	40	63	80	100	125	160	200	250
	660 V	A	10	16	20	25	40	63	80	125	160	200	250
	UL/CSA	A	20	25	30	30	40	80[3]	100[3]	150[3]	200[3]	250[3]	300[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	250	315
AC-1 Resistive or low inductive loads	SEV 380 V	A	16	20	32	40	63	80	100	125	160	200	250
	660 V	A	10	16	20	25	40	63	80	125	160	200	250
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	160	200	250
	660 V - 690 V	A	16	20	32	40	55	65	85	100	100	125	140
Ampere-Rating Resistive or low inductive loads	UL/CSA[4] 600 V	A	20	25	30	30	40	80[3]	100[3]	150[3]	200[3]	250[3]	300[3]
Resistive loads	CEE 500 V	A	10	16	20	25	32	40	63	-	-	-	-
Rated Utilization Category	IEC/VDE												
AC-3 Direct-on-line starting	3 phase 220 V - 240 V	kW	2,2	3	4	7,5	11	15	18,5	22	30	37	45
	3 pole 380 V - 440 V	kW	3,7	5,5	7,5	11	18,5	22	30	37	45	55	75
	500 V	kW	3,7	5,5	7,5	15	22	30	37	45	55	75	90
	690 V	kW	3,7	5,5	7,5	11	15	18,5	22	30	37	45	45
AC-23A Frequent switching of motors or other high inductive loads	220 V - 240 V	kW	3	4	5,5	7,5	11	18,5	22	30	30	37	55
	3 phase 380 V - 440 V	kW	5,5	7,5	11	15	22	30	37	45	55	90	110
	3 pole 500 V	kW	5,5	7,5	11	18,5	30	37	45	55	75	110	132
	690 V	kW	5,5	7,5	11	15	18,5	22	30	37	37	45	45
DOL-Rating Standard motor load (similar AC-3)	UL/CSA[4] 120 V	HP	1	1,5	2	3	5	7,5	10	15	20	30	40
	3 phase 240 V	HP	2	3	5	7,5	10	20	25	30	40	60	75
	3 pole 480 V	HP	-	5	10	15	20	40	50	60	60	75	100
	600 V	HP	-	5	10	15	20	50	50	60	60	75	100
Short Circuit Protection													
Max. fuse size	(gl-characteristic)	A	20	35	35	50/35	63/50	80	100	125	160	250	315
Rated conditional short-circuit current		$kA_{eff.}$	3	15	15	15/25	15/25	25	25	30	30	30	30
Rated short-time withstand current	(1 s-current)	A	130	350	430	500	580	1600	1850	2500	3000	4600	5800
Max. Permissible Wire Gage													
For box terminal	Single-core or stranded wire	mm^2	2,5	6	6	16	16	35	35	95	95	185	185
		AWG	14	10	10	6	6	2	2	3/0	3/0	-	-
		MCM	-	-	-	-	-	-	-	-	-	350	350
	Flexible wire with sleeve	mm^2	1,5	4	4	10	10	25	25	50	50	120	120
		AWG	16	10	10	8	8	5	5	1/0	1/0	-	-
		MCM	-	-	-	-	-	-	-	-	-	250	250
	Flexible wire without sleeve	mm^2	2,5	4	4	10	10	25	25	70	70	150	150
		AWG	14	10	10	6	6	5	5	2/0	2/0	-	-
		MCM	-	-	-	-	-	-	-	-	-	300	300
Cable lug or track must accept										M10 x	M10 x	M12 x	M12 x
	connection screw	mm	-	-	-	-	-	-	-	20	20	20	20
	Max. width	mm	-	-	-	-	-	-	-	20	20	25	25
	Max. width with protective cover	mm	-	-	-	-	-	-	-	25	25	34	34
Ambient Temperature	open at 100 % I_u/I_{th}		50 °C during 24 hours with peaks up to 55 °C										
	enclosed at 100 % I_{the}		35 °C during 24 hours with peaks up to 40 °C										

1) Valid for lines with common neutral termination, overvoltage category III, pollution degree 3, other values on request. 2) Suitable for no load switching applications (AC-20A) above 690 V. 3) Valid when connected with wire rated for 75 °C. 4) International Standards and Approvals, refer to page 20. 5) The values are valid for switches 6 pole and more.

Selection Data					Auxiliary contacts for: KG10A KG10B	KG20 - KG32B	KG41 - KG100C	KG125 - KG162	KG250 - KG317
Rated Insulation Voltage U_i	IEC/VDE		V	690	500	690	690	690
	SEV		V	660	500	660	660	660
	UL/CSA		V	300	600	600	600	600
Rated Thermal Current I_u/I_{th}	IEC/VDE/BS		A	20	10	16	16	16
	SEV	380 V - 500 V	A	16	10	16	16	16
		660 V	A	10		16	16	16
	UL/CSA		A	20	10	10	10	10
Rated Operational Current I_e								
AC-21A Switching of resistive loads, including moderate overloads	IEC/VDE		A	20	10	16	16	16
AC-1 Resistive or low inductive loads	SEV	380 V - 500 V	A	16	10	16	16	16
		660 V	A	10		16	16	16
AC-15 Switching of control devices, contactors, valves etc.		110 V - 240 V	A	6	2,5	6	6	6
		380 V - 440 V	A	4	1,5	3	4	4
		500 V	A	-	1	1,5	1,5	1,5
Pilot Duty Heavy	UL/CSA			A300	A600	A600	A600	A600
Ampere-Rating Resistive or low inductive loads	UL/CSA		A	20	10	10	10	10
Short Circuit Protection								
Max. fuse size	(gl-characteristic)		A	20	10	16	16	16
Rated conditional short-circuit current			$kA_{eff.}$	3	3	3	3	3
Max. Permissible Wire Gage								
	Single-core or stranded wire		mm^2	2,5	1,5	4	4	4
			AWG	14	16	12	12	12
	Flexible wire		mm^2	2,5	1,5	2,5	2,5	2,5
			AWG	14	16	14	14	14