MOUNTING-INSTRUCTION

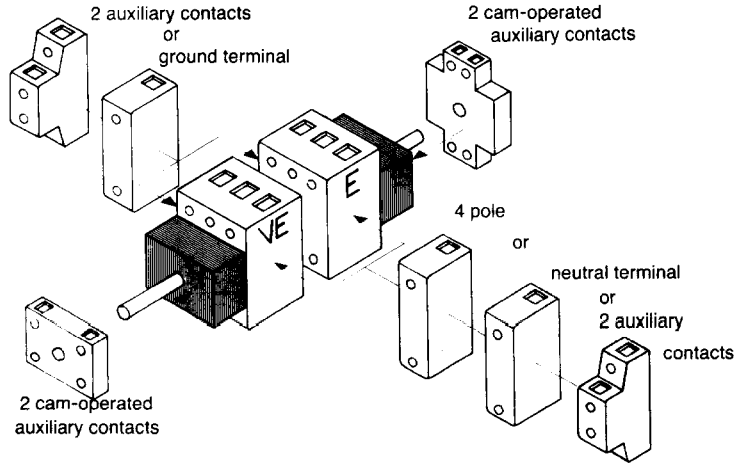
KRAUS & NAIMER
BLUE LINE

FOR TYPE KG – SWITCHES

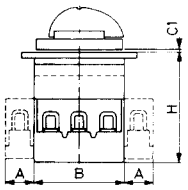
The flexibility of the modular system offers maximum variability even for retro-fitting purposes. The additional modules can be retrofitted on site with the switch already installed, the only exception being the cam- operated auxiliary contacts.

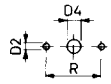
MOUNTING OF ADDITIONAL MODULES

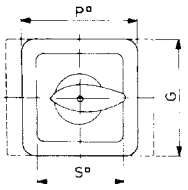
Before fitting additional modules ensure that the incoming supply is disconnected and the switch is in ON-position.
The mounting of additional modules, like ground terminal, neutral terminal, auxiliary contacts or a fourth pole, is accomplished by slipping the module from the shaft-side into the slot integrated on the left and right side of the switch, as far as a click can be heard.
A switch can be equipped with one module each left and right.

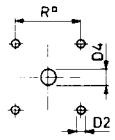


Mounting E

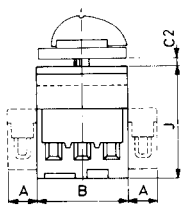


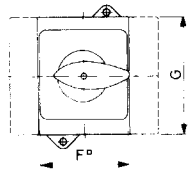




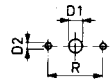


Mounting VE

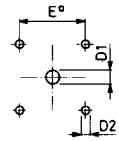


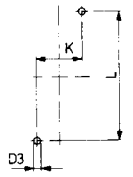


KG20/KG32

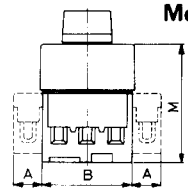


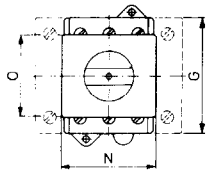
KG20A-KG100C





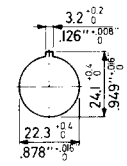
Mounting VE2

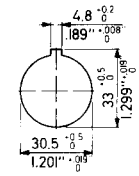






Mounting FT1, FT2: KG20A/KG32A





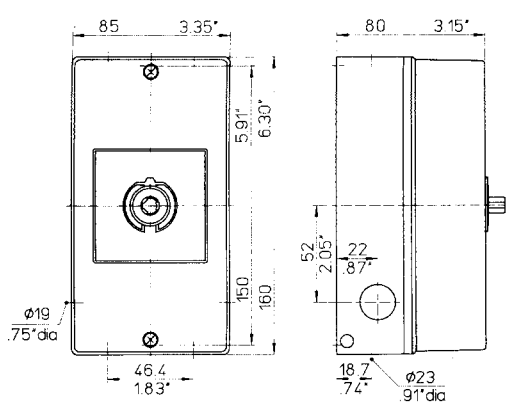
22mm 30mm

Dimensions mm / inch

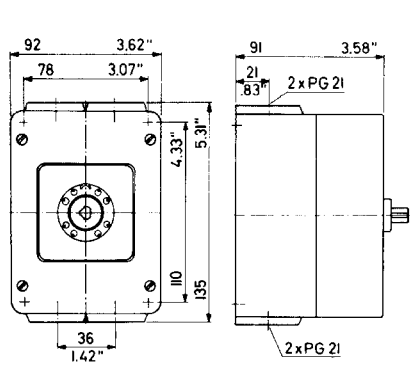
Type	Cam-operated auxiliary contacts	A*)	B	C1	C2	D1	D2	D3	D4	E	F	G	H	J	K	L	M	N	O	P	R	S
KG20/	without	13,5	42,0	1- 4	12,0	6,5	3,2	4,1	8,0	20,0	30,0	54,0	50,8 2,00	50,0 1.97	22,0 ±0,5	60,0 ±0,5					20,0	30,0
KG32	with	.53	1.65	.04 - .16	.47	.26	.13	.16	.31	.79	1.18	2.13	59,8 2.35	59,0 2.32	.87 ±.02	2.36 ±.02					.79	1.18
KG20A/	without	13,5	42,0	1- 4	12,0	6,5	4,1	4,1	9,5	36,0	48,0	54,0	53,8 2.12	50,0 1.97	22,0 ±0,5	60,0 ±0,5	57,0 2.24	42,0	37,0	48,0	36,0	48,0
KG32A	with	.53	1.65	.04 - .16	.47	.26	.16	.16	.37	1.42	1.89	2.13	62,8 2.47	59,0 2.32	.87 ±.02	2.36 ±.02	66,0 2.60	1.65	1.46	1.89	1.42	1.89
KG20B/	without	13,5	42,0	1- 4	13,5	9,0	4,1	4,1	9,5	48,0	64,0	54,0	53,8 2.12	50,0 1.97	22,0 ±0,5	60,0 ±0,5				64,0	48,0	64,0
KG32B	with	.53	1.65	.04 - .16	.53	.35	.16	.16	.37	1.89	2.52	2.13	62,8 2.47	59,0 2.32	.87 ±.02	2.36 ±.02				2.52	1.89	2.52
KG41/	without	16,0	50,0	1- 4	12,0	9,0	4,1	4,1	9,5 .37	36,0	48,0	64,0	60,5 2.38	61,0 2.40	25,0 ±0,5	70,0 ±0,5	64,0 2.52	52,4	45,0	64,0 2.52	36,0 1.42	48,0 1.89
KG64	with	.63	1.97	.04 - .16	.47	.35	.16	.16		1.42	1.89	2.52		71,0 2.80	.98 ±.02	2.76 ±.02	74,0 2.91	2.06	1.77			
KG41B/	without	16,0	50,0	1- 4	13,5	9,0	4,1	4,1	9,5	48,0	64,0	64,0	60,5 2.38	61,0 2.40	25,0 ±0,5	70,0 ±0,5				64,0	48,0	64,0
KG64B	with	.63	1.97	.04 - .16	.53	.35	.16	.16	.37	1.89	2.52	2.52	73,0 2.87	71,0 2.80	.98 ±.02	2.76 ±.02				2.52	1.89	2.52
KG80/	without	22,0	70,0	1- 4	13,5	9,0	4,1	5,2	9,5	48,0	64,0	80,0	70,6 2.78	68,0 2.68	25,0 ±0,5	90,0 ±1,0	70,0 2.76	70,0 2.76	45,0 1.77	88,0	48,0	64,0
KG100	with	.87	2.76	.04 - .16	.53	.35	.16	.20	.37	1.89	2.52	3.15	80,6 3.17	78,0 3.07	.98 ±.02	3.54 ±.04				3.46	1.89	2.52
KG80C/	without	22,0	70,0	1- 4	13,5	9,0	5,2	5,2	9,5	68,0	88,0	80,0	70,6 2.78	68,0 2.68	25,0 ±0,5	90,0 ±1,0				88,0	68,0	88,0
KG100C	with	.87	2.76	.04 - .16	.53	.35	.20	.20	.37	2.68	3.46	3.15	80,6 3.17	78,0 3.07	.98 ±.02	3.54 ±.04				3.46	2.68	3.46

*) Lateral auxiliary contact block KG20/KG32: 10 mm, .39 inch
KG41-KG100C: 11 mm, .43 inch

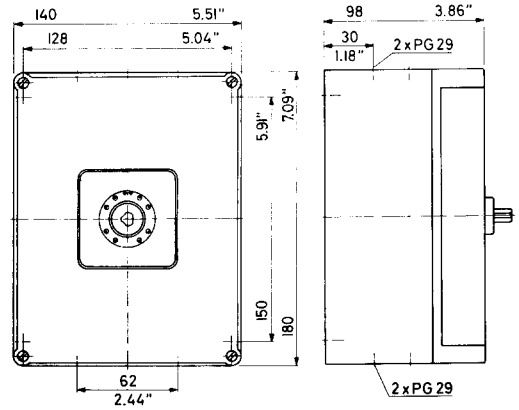
Mounting KL: KG20B/KG32B



Mounting PFB/PFE: KG41/KG64



Mounting PFB/PFE: KG80/KG100



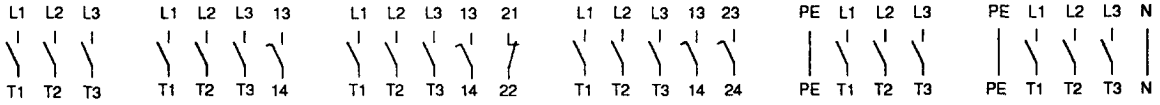
Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.
Do neither lubricate nor treat contacts.

Technical Data according to UL and CSA Specifications			KG20 KG20A KG20B	KG32 KG32A KG32B	KG41 KG41B	KG64 KG64B	KG80 KG80C	KG100 KG100C	Auxiliary Contacts KG20- KG32B	 KG41- KG100C
Rated Voltage		V A.C.	600	600	600	600	600	600	600	600
Ampere Rating		A	25	30	30	40	80	100	10	10
Standard motor load - DOL-Rating: 3phase - 3pole	110V - 120V	HP	1,5	2	3	5	7,5	10	-	-
	220V - 240V	HP	3	5	7,5	10	20	25	-	-
	440V - 480V	HP	5	10	15	20	40	50	-	-
	550V - 600V	HP	5	10	15	20	50	50	-	-
1phase - 2pole	110V - 120V	HP	0,5	1	1,5	2	3	5	-	-
	220V - 240V	HP	1,5	2,5	3	5	10	15	-	-
	277V	HP	2	3	5	7,5	15	15	-	-
	440V - 480V	HP	3	5	7,5	10	20	30	-	-
	550V - 600V	HP	3	5	7,5	10	30	30	-	-
Pilot Duty Heavy	600V A.C.	-	A600	A600	-	-	-	-	A600	A600
Type of wire		-	use copper wire only / utilisez conducteurs en cuivre							
Temperature rating of wire		°C	60/75	60/75	60/75	60/75	75	75	60/75	60/75
Torque value for field wiring terminals		lb-in.	11	11	16	16	27	27	-	-
		Nm	1,25	1,25	1,8	1,8	3	3	-	-
For short circuit protection according to UL refer to note		-	A	A	A	A	A	A	-	-

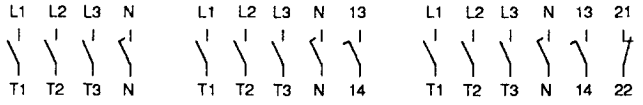
Note A: These devices are suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses.
Note A: Ces dispositifs sont adaptés aux utilisations sur des circuits susceptibles de délivrer au plus 10kA alternatifs efficaces, 600V c.a. maxi, avec protection par fusibles type RK1.

Connection diagrams for switch and switch-disconnector

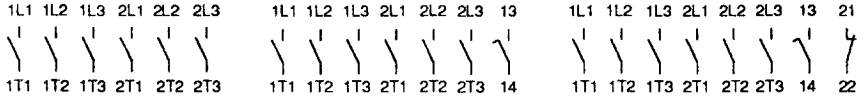
ON/OFF switch 3pole (optionally with cam-operated auxiliary contacts, GRD-terminal, GRD- and N-terminal)



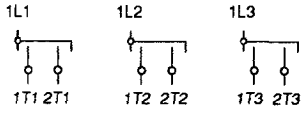
ON/OFF switch 4pole (optionally with cam-operated auxiliary contacts)



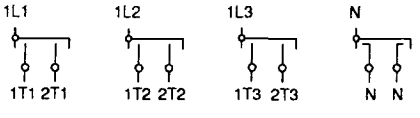
ON/OFF switch 6pole (optionally with cam-operated auxiliary contacts)



Double throw switch 3pole



Double throw switch 4pole



Lateral auxiliary contacts

Mounting	1NO + 1NC	2NO + 2NC
E	33 41 34 42	33 41 53 61 34 42 54 62
VE	31 43 32 44	31 43 51 63 32 44 52 64

VOP K003 GB
02.95