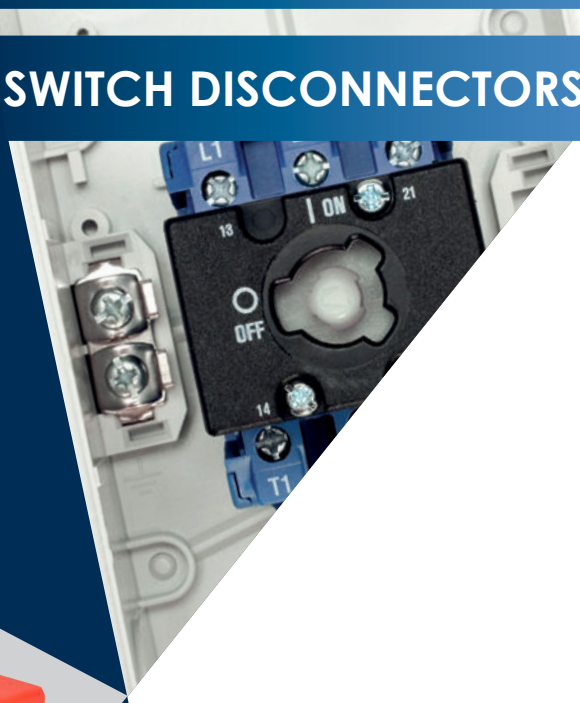
Short form

ENCLOSED SWITCHES

SWITCH DISCONNECTORS





krausnaimer.co.uk

For free expert advice call our sales team

Kraus & Naimer

01635 26 26 26

SF05/FEB20



Kraus & Naimer

Short form

'Quality, range & service'

The Shorform Catalogue contains both our most popular
enclosed switches (pages 4-30)

and our best selling panel mounted
switch disconnector range (pages 31-47)

Kraus & Naimer's Blue Line products are accepted and universally recognised for their quality and workmanship.

Kraus & Naimer Limited is part of the worldwide Kraus & Naimer Group which celebrated its 110 year anniversary in 2017.

In 1963, Kraus & Naimer Limited was established as the UK sales and marketing company for Kraus & Naimer switchgear. By the early 70's successful growth meant a move to its current purpose-built premises in Newbury, from which it supplies over 3,000 customers with world-renowned, high quality Blue Line switchgear products.

Our key to success is the outstanding level of technical product support through our dedicated team of internal and external technical sales engineers. With many years experience, training and unbeatable product knowledge the team can find a solution for your switch applications.

Please note for orders under £150 net, a carriage charge of £10 is added.

www.krausnaimer.co.uk
e: sales-uk@krausnaimer.com t: 01635 262626

Enclosed Products

Enclosed Isolators

Main & Main/Emergency-Off Switch
Insulated enclosure 4-5
Painted steel enclosure 6-7
Red painted steel enclosure 8-9
Stainless steel enclosure 10-11
Sloping Roof stainless steel 12-13
Flush mounted stainless steel 14-15
GRP enclosure 14-15
GRP All-in-One 16
Insulated enclosure, EMC compliant connection 17

AC Switch-Disconnectors
Single & three phase 25 - 40A 18

DC Switch-Disconnectors
Single string & two string 11 - 50A up to 1000 VDC 19

Changeover Switch with Centre Off
Insulated, painted mild steel & stainless steel enclosure 20-21
GRP enclosure 22-23
Load Switch, painted mild steel 22-23

Main/Emergency-Off Switch + Emergency Stop Push Button
Insulated enclosure/painted steel enclosure/Stainless steel enclosure 24

Changeover Switch with Centre Off
NEW Mains-Off Generator switch with appliance inlet, painted mild steel 25

Control Stations

Emergency Stop Push Button Station
Stainless steel enclosure twist to reset, key operate to reset 26
Painted steel enclosure twist to reset, key operate to reset
Stainless steel, flush mount twist to reset, key operate to reset
Insulated enclosure twist to reset, pull to reset palm/foot switch

Emergency Stop Push Button Station with protective shroud
Stainless steel enclosure twist to reset, key operate to reset 27
Painted steel enclosure twist to reset, key operate to reset
Stainless steel, flush mount twist to reset, key operate to reset
Insulated enclosure twist to reset, pull to reset palm/foot switch

Fire Alarm Isolator
Insulated enclosure - double pole 10A 27

Rotary Control Switch
Insulated enclosure off/on & changeover switches 28

Key Operated Control Switch
Insulated enclosure off/on, changeover & step switches 28

Load Switches

Emergency-Off Switch
Insulated enclosure 3 & 4 pole 25A & 32A 28

Motor Reversing Switch
Insulated enclosure 3 phase/1 phase motors 28

Technical Data & Additional Information
Options & Additional Information
Technical Data 29
IP rating information 30

Switch-disconnectors

open switches (pages 31 - 47)

OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 20A - 315A 3, 4, 6 & 8 POLE



IP RATING IP66/67 protection

ENCLOSURE insulated polycarbonate grey (RAL7035)

HANDLE OPTION red & yellow padlockable handle optional black handle available

EARTH TERMINAL included

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

Without Auxiliaries

Ie AC-21A	3 Pole	Encl. Ref		3 Pole + Solid Neutral (TP&N)	Encl. Ref		
20A	KG10 T203/GBA270 *KS1V	KSAV		KG10 T203/GBA355 *KS1V	KSAV		
25A	KG20 T203/GBA270 *KS1V	KSAV		KG20 T203/GBA355 *KS1V	KSAV		
32A	KG32 T203/GBA270 *KS1V	KSAV		KG32 T203/GBA355 *KS1V	KSAV		
40A	KG41 T203/GBA270 *KL1V	KLCV		KG41 T203/GBA355 *KL1V	KLCV		
63A	KG64 T203/GBA270 *KL1V	KLCV		KG64 T203/GBA355 *KL1V	KLCV		
80A	KG80 T203/GBA270 *KL1V	KLDV		KG80 T203/GBA355 *KL1V	KLDV		
100A	KG100 T203/GBA270 *KL1V	KLDV		KG100 T203/GBA355 *KL1V	KLDV		
125A	KG105 T203/GBA270 *KL1V	KLDV		KG105 T203/GBA355 *KL1V	KLDV		
125A[3)]	KG125 T203/GBA270 *ST	ST3		KG125 T207/GBA355 *ST	ST3		
160A	KG160 T203/GBA270 *ST	ST3		KG160 T207/GBA355 *ST	ST3		
200A	KG210 T203/GBA270 *ST	ST3		KG210 T207/GBA355 *ST	ST4		
250A	KG250 T203/GBA270 *ST	ST3		KG250 T207/GBA355 *ST	ST4		
315A	KG315 T203/GBA270 *ST	ST3		KG315 T207/GBA355 *ST	ST4		

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux	Encl. Ref		3 Pole + Solid Neutral (TP&N) + Aux	Encl. Ref		
20A	KG10 T203/GBA281 *KS1V	KSAV		KG10 T203/GBA374 *KS1V	KSAV		
25A	KG20 T203/GBA280 *KS1V	KSAV		KG20 T203/GBA373 *KS1V	KSAV		
32A	KG32 T203/GBA280 *KS1V	KSAV		KG32 T203/GBA373 *KS1V	KSAV		
40A	KG41 T203/GBA280 *KL1V	KLCV		KG41 T203/GBA373 *KL1V	KLCV		
63A	KG64 T203/GBA280 *KL1V	KLCV		KG64 T203/GBA373 *KL1V	KLCV		
80A	KG80 T203/GBA280 *KL1V	KLDV		KG80 T203/GBA373 *KL1V	KLDV		
100A	KG100 T203/GBA280 *KL1V	KLDV		KG100 T203/GBA373 *KL1V	KLDV		
125A	KG105 T203/GBA280 *KL1V	KLDV		KG105 T203/GBA373 *KL1V	KLDV		
125A[3)]	KG125 T203/GBA065 *ST	ST3		KG125 T207/GBA110 *ST	ST3		
160A	KG160 T203/GBA065 *ST	ST3		KG160 T207/GBA110 *ST	ST3		
200A	KG210 T203/GBA070 *ST	ST3		KG210 T207/GBA120 *ST	ST4		
250A	KG250 T203/GBA070 *ST	ST3		KG250 T207/GBA120 *ST	ST4		
315A	KG315 T203/GBA070 *ST	ST3		KG315 T207/GBA120 *ST	ST4		

Notes

1) The following auxiliary contacts are provided:-

KG10 3 to 6 Pole	1 N.O. (early break) + 1 N.C.
KG20 to KG105 3 to 6 Pole	2 N.O. (early break)
KG10 to KG100 8 Pole	1 N.O. (early break) + 1 N.C.
KG125 to KG315 3 to 8 Pole	2 N.O. (early break) + 2 N.C.

2) Switched neutral pole is early make/late break.

3) KG125 suitable for applications requiring larger cable termination and increased enclosure size than a KG105.

DIMENSIONS (units = mm throughout the catalogue unless stated otherwise)

Encl. Ref.	Encl. Dim. H	W	D	Encl. Dim. H1	W1	d	Cable Entries.	Line Drg.
KSAV	120	85	90	110	-	4.2	4 x 20/25mm k'outs	Fig. 1
KLCV	190	100	93	178	-	5.6	4 x 20/25mm k'outs	Fig. 1
KLD	250	145	107	229	124	6.5	4 x 25/40mm k'outs	Fig. 2
KLDV	250	145	107	229	124	6.5	4 x 25/40mm k'outs	Fig. 2
STE	280	190	180	254	164	7	2 x gland plates	Fig. 2
ST2	280	190	130	254	164	7	2 x gland plates	Fig. 2
ST3	380	280	180	354	254	7	2 x gland plates	Fig. 2
ST4	560	380	180	534	354	7	2 x gland plates	Fig. 2

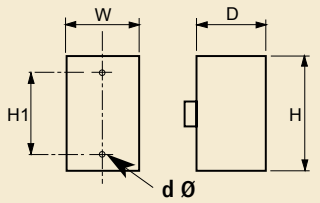


Fig. 1

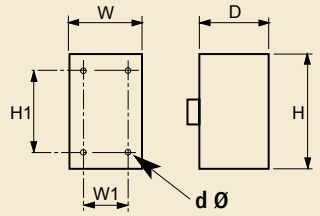


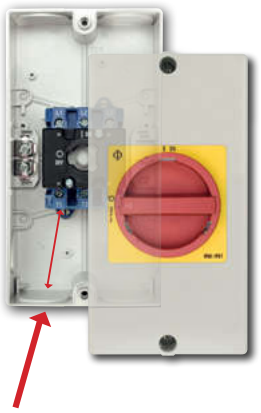
Fig. 2

Please refer to Encl. Ref column in tables below for enclosure reference :

Back to index

Without Auxiliaries

	4 Pole (3ph + Sw N²)	Encl. Ref		6 Pole	Encl. Ref		Ie AC-21A
	KG10 T204/GBA290 *KS1V	KSAV		KG10B T206/GBA320 *KS1V	KSAV		20A
	KG20 T204/GBA290 *KS1V	KSAV		KG20B T206/GBA320 *KL1V	KLCV		25A
	KG32 T204/GBA290 *KS1V	KSAV		KG32B T206/GBA320 *KL1V	KLCV		32A
	KG41 T204/GBA290 *KL1V	KLCV		KG41B T206/GBA320 *KL1V	KLDV		40A
	KG64 T204/GBA290 *KL1V	KLCV		KG64B T206/GBA320 *KL1V	KLDV		63A
	KG80 T204/GBA290 *KL1V	KLDV		KG80 T206/GBA967 *ST	STE		80A
	KG100 T204/GBA290 *KL1V	KLDV		KG100 T206/GBA967 *ST	STE		100A
	KG105 T204/GBA290 *KL1V	KLDV		KG105 T206/GBA967 *ST	STE		125A
	KG125 T204/GBA290 *ST	ST3		KG125 T206/GBA967 *ST	ST4		125A[3]
	KG160 T204/GBA290 *ST	ST3		KG160 T206/GBA967 *ST	ST4		160A
	KG210 T204/GBA290 *ST	ST4					200A
	KG250 T204/GBA290 *ST	ST4					250A
	KG315 T204/GBA290 *ST	ST4					315A



AMPLE SPACE FOR EASY WIRING

With Auxiliaries 1

	4 Pole (3ph + Sw N²) + Aux	Encl. Ref		6 Pole + Aux	Encl. Ref		8 Pole (2x3ph + Sw N²) + Aux	Encl. Ref		Ie AC-21A
	KG10 T204/GBA311 *KS1V	KSAV		KG10 T206/40 *KS51V	KSAV		KG10 T208/GBA002 *KS1V	KSAV		20A
	KG20 T204/GBA310 *KS1V	KSAV		KG20B T206/GBA330 *KL1V	KLCV		KG20B T208/GBA008 *KL	KLD		25A
	KG32 T204/GBA310 *KS1V	KSAV		KG32B T206/GBA330 *KL1V	KLCV		KG32B T208/GBA008 *KL	KLD		32A
	KG41 T204/GBA310 *KL1V	KLCV		KG41B T206/GBA330 *KL1V	KLDV		KG41B T208/GBA008 *ST	ST2		40A
	KG64 T204/GBA310 *KL1V	KLCV		KG64B T206/GBA330 *KL1V	KLDV		KG64B T208/GBA008 *ST	ST2		63A
	KG80 T204/GBA310 *KL1V	KLDV		KG80 T206/GBA907 *ST	STE		KG80 T208/GBA008 *ST	ST3		80A
	KG100 T204/GBA310 *KL1V	KLDV		KG100 T206/GBA907 *ST	STE		KG100 T208/GBA008 *ST	ST3		100A
	KG105 T204/GBA310 *KL1V	KLDV		KG105 T206/GBA907 *ST	STE					125A
	KG125 T204/GBA075 *ST	ST3		KG125 T206/GBA085 *ST	ST4		KG125 T208/GBA010 *ST	ST4		125A[3]
	KG160 T204/GBA075 *ST	ST3		KG160 T206/GBA085 *ST	ST4		KG160 T208/GBA010 *ST	ST4		160A
	KG210 T204/GBA080 *ST	ST4								200A
	KG250 T204/GBA080 *ST	ST4								250A
	KG315 T204/GBA080 *ST	ST4								315A

OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 20A - 315A 3, 4, 6, 9 & 12 POLE



IP RATING	IP66 protection
ENCLOSURE	grey paint finish (RAL7032)
HANDLE OPTION	red & yellow padlockable handle optional black handle available
EARTH TERMINAL	included + lid bonding link
SAFETY FEATURE	switch is interlocked with the lid to prevent opening in 'ON' position

Without Auxiliaries

Ie AC-21A	3 Pole	3 Pole + Solid Neutral (TP&N)	4 Pole (3ph + Sw N²)
20A	KG10 T203/GBA119 *MB2		KG10 T204/GBA219 *MB2
25A	KG20 T203/GBA119 *MB2	KG20 T207/GBA170 *MB2	KG20 T204/GBA219 *MB2
32A	KG32 T203/GBA119 *MB2	KG32 T207/GBA170 *MB2	KG32 T204/GBA219 *MB2
40A	KG41 T203/GBA109 *MB2	KG41 T207/GBA170 *MB2	KG41 T204/GBA209 *MB2
63A	KG64 T203/GBA109 *MB2	KG64 T207/GBA170 *MB2	KG64 T204/GBA209 *MB2
80A	KG80 T203/GBA109 *MB3	KG80 T207/GBA170 *MB3	KG80 T204/GBA209 *MB3
100A	KG100 T203/GBA109 *MB3	KG100 T207/GBA170 *MB3	KG100 T204/GBA209 *MB3
125A	KG105 T203/GBA109 *MB3	KG105 T207/GBA170 *MB3	KG105 T204/GBA209 *MB3
125A[3)]	KG125 T203/GBA109 *MB8	KG125 T207/GBA170 *MB8	KG125 T204/GBA209 *MB8
160A	KG160 T203/GBA109 *MB8	KG160 T207/GBA170 *MB8	KG160 T204/GBA209 *MB8
200A	KG210 T203/GBA109 *MB9	KG210 T207/GBA170 *MB9	KG210 T204/GBA209 *MB9
250A	KG250 T203/GBA109 *MB9	KG250 T207/GBA170 *MB9	KG250 T204/GBA209 *MB9
275A			
315A	KG315 T203/GBA109 *MB9	KG315 T207/GBA170 *MB9	KG315 T204/GBA209 *MB9

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux	3 Pole + Solid Neutral (TP&N)+Aux	4 Pole (3ph + Sw N²) + Aux
20A	KG10 T203/GBA168 *MB2		KG10 T204/GBA268 *MB2
25A	KG20 T203/GBA169 *MB2	KG20 T207/GBA175 *MB2	KG20 T204/GBA269 *MB2
32A	KG32 T203/GBA169 *MB2	KG32 T207/GBA175 *MB2	KG32 T204/GBA269 *MB2
40A	KG41 T203/GBA159 *MB2	KG41 T207/GBA175 *MB2	KG41 T204/GBA259 *MB2
63A	KG64 T203/GBA159 *MB2	KG64 T207/GBA175 *MB2	KG64 T204/GBA259 *MB2
80A	KG80 T203/GBA159 *MB3	KG80 T207/GBA175 *MB3	KG80 T204/GBA259 *MB3
100A	KG100 T203/GBA159 *MB3	KG100 T207/GBA175 *MB3	KG100 T204/GBA259 *MB3
125A	KG105 T203/GBA159 *MB3	KG105 T207/GBA175 *MB3	KG105 T204/GBA259 *MB3
125A[3)]	KG125 T203/GBA165 *MB8	KG125 T207/GBA180 *MB8	KG125 T204/GBA265 *MB8
160A	KG160 T203/GBA165 *MB8	KG160 T207/GBA180 *MB8	KG160 T204/GBA265 *MB8
200A	KG210 T203/GBA175 *MB9	KG210 T207/GBA185 *MB9	KG210 T204/GBA275 *MB9
250A	KG250 T203/GBA175 *MB9	KG250 T207/GBA185 *MB9	KG250 T204/GBA275 *MB9
275A			
315A	KG315 T203/GBA175 *MB9	KG315 T207/GBA185 *MB9	KG315 T204/GBA275 *MB9

Main Switches 250A - 1250A 3 & 4 POLE (IP65 with black & red padlockable handle)

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux	3 Pole + Neutral Link + Aux	4 Pole + Aux
250A	UK250/A 3011ST02 *MB25	UK250/A 3111ST02 *MB25	UK250/A 4011ST02 *MB25
315A	UK315/A 3011ST02 *MB26	UK315/A 3111ST02 *MB26	UK315/A 4011ST02 *MB26
400A	UK400/A 3011ST02 *MB26	UK400/A 3111ST02 *MB26	UK400/A 4011ST02 *MB26
630A	UK630/A 3011ST02 *MB27	UK630/A 3111ST02 *MB27	UK630/A 4011ST02 *MB27
800A	UK800/A 3011ST02 *MB28	UK800/A 3111ST02 *MB28	UK800/A 4011ST02 *MB28
1000A	UK1000/A 3011ST02 *MB28	UK1000/A 3111ST02 *MB28	UK1000/A 4011ST02 *MB28
1250A	UK1250/A 3011ST02 *MB28	UK1250/A 3111ST02 *MB28	UK1250/A 4011ST02 *MB28

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d	Cable Entries.	Line Drg.
MB2	194	119	115	8	133	137	6	-	Fig. 4
MB3	254	149	125	8	193	167	6	-	Fig. 4
MB4	309	234	150	8	248	252	6	-	Fig. 4
MB8	400	300	175	-	340	240	6.5	2 x gland plates	Fig. 6
MB9	500	400	175	-	440	340	6.5	2 x gland plates	Fig. 6
MB10	500	400	300	-	440	340	6.5	2 x gland plates	Fig. 6
MB20	250	175	175	-	225	195	6	-	Fig. 4
MB25	650	450	225	-	590	390	6.5	2 x gland plates	Fig. 6
MB26	800	550	225	-	740	490	6.5	2 x gland plates	Fig. 6
MB27	900	600	300	-	840	540	6.5	2 x gland plates	Fig. 6
MB28	1000	800	400	-	940	740	6.5	4 x gland plates	Fig. 6
MB29	750	450	300	-	690	390	6.5	2 x gland plates	Fig. 6

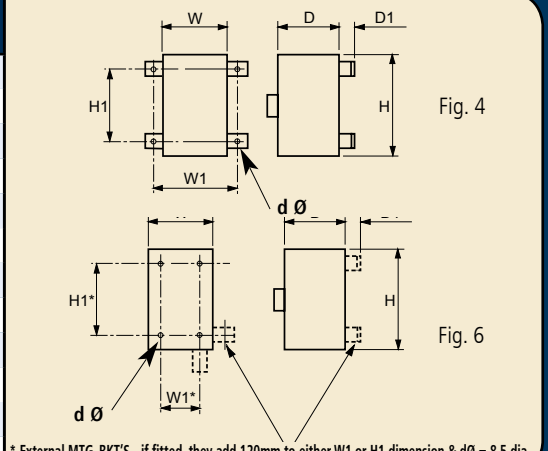


Fig. 4

Fig. 6

* External MTG. BKT'S - if fitted, they add 120mm to either W1 or H1 dimension & dØ = 8.5 dia

Please refer to end of part no. for enclosure reference. See tables below:

Back to index

6 Pole		9 Pole		12 Pole		Ie AC-21A
		UK 20/9000ST01 *MB20		UK 20/12000ST01 *MB20		20A
KG20B T206/GBA309 *MB2		UK 25/9000ST01 *MB20		UK 25/12000ST01 *MB20		25A
KG32B T206/GBA309 *MB2		UK 32/9000ST01 *MB20		UK 32/12000ST01 *MB20		32A
KG41B T206/GBA309 *MB3						40A
KG64B T206/GBA309 *MB3						63A
KG80 T206/GBA309 *MB4						80A
KG100 T206/GBA309 *MB4						100A
KG105 T206/GBA309 *MB4						125A
KG125 T206/GBA309 *MB9						125A[3]
KG160 T206/GBA309 *MB9						160A
C200-4 T206/GBA309 *MB10						200A
						250A
C316 T206/GBA309 *MB10						275A
C316 T206/GBA309 *MB29						315A

Without Auxiliaries

6 Pole + Aux		9 Pole + Aux		12 Pole + Aux		Ie AC-21A
		UK 20/9020ST01 *MB20		UK 20/12020ST01 *MB20		20A
KG20B T206/GBA359 *MB2		UK 25/9020ST01 *MB20		UK 25/12020ST01 *MB20		25A
KG32B T206/GBA359 *MB2		UK 32/9020ST01 *MB20		UK 32/12020ST01 *MB20		32A
KG41B T206/GBA359 *MB3						40A
KG64B T206/GBA359 *MB3						63A
KG80 T206/GBA359 *MB4						80A
KG100 T206/GBA359 *MB4						100A
KG105 T206/GBA359 *MB4						125A
KG125 T206/GBA365 *MB9						125A[3]
KG160 T206/GBA365 *MB9						160A
C200-4 T206/GBA385 *MB10						200A
						250A
C316 T206/GBA006 *MB10						275A
C316 T206/GBA365 *MB29						315A

With Auxiliaries [1]

Notes

1) The following auxiliary contacts are provided:-

KG10	1 N.O. (early break) + 1 N.C.
KG20 to KG105	2 N.O. (early break)
KG125 to KG315	2 N.O. (early break) + 2 N.C.
UK20 to UK32	2 N.O. (early break)
C316/C200-4	2 N.O. (early break)
UK250/A to UK1250/A	1 N.O. (early break) + 1 N.C.

2) Switched neutral pole is early make/late break.

3) KG125 suitable for applications requiring larger cable termination and increased enclosure size than KG105.



OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 20A - 315A 3, 4, 6, 9 & 12 POLE



IP RATING	IP66 protection
ENCLOSURE	red paint finish (RAL3000)
HANDLE OPTION	red & yellow padlockable handle optional black handle available
EARTH TERMINAL	included + lid bonding link
SAFETY FEATURE	switch is interlocked with the lid to prevent opening in 'ON' position

Without Auxiliaries

Ie AC-21A	3 Pole	3 Pole + Solid Neutral (TP&N)	4 Pole (3ph + Sw N[2])
20A	KG10 T203/GBA119 *RB2		KG10 T204/GBA219 *RB2
25A	KG20 T203/GBA119 *RB2	KG20 T207/GBA170 *RB2	KG20 T204/GBA219 *RB2
32A	KG32 T203/GBA119 *RB2	KG32 T207/GBA170 *RB2	KG32 T204/GBA219 *RB2
40A	KG41 T203/GBA109 *RB2	KG41 T207/GBA170 *RB2	KG41 T204/GBA209 *RB2
63A	KG64 T203/GBA109 *RB2	KG64 T207/GBA170 *RB2	KG64 T204/GBA209 *RB2
80A	KG80 T203/GBA109 *RB3	KG80 T207/GBA170 *RB3	KG80 T204/GBA209 *RB3
100A	KG100 T203/GBA109 *RB3	KG100 T207/GBA170 *RB3	KG100 T204/GBA209 *RB3
125A	KG105 T203/GBA109 *RB3	KG105 T207/GBA170 *RB3	KG105 T204/GBA209 *RB3
125A[3)]	KG125 T203/GBA109 *RB8	KG125 T207/GBA170 *RB8	KG125 T204/GBA209 *RB8
160A	KG160 T203/GBA109 *RB8	KG160 T207/GBA170 *RB8	KG160 T204/GBA209 *RB8
200A	KG210 T203/GBA109 *RB9	KG210 T207/GBA170 *RB9	KG210 T204/GBA209 *RB9
250A	KG250 T203/GBA109 *RB9	KG250 T207/GBA170 *RB9	KG250 T204/GBA209 *RB9
275A			
315A	KG315 T203/GBA109 *RB9	KG315 T207/GBA170 *RB9	KG315 T204/GBA209 *RB9

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux	3 Pole + Solid Neutral (TP&N)+Aux	4 Pole (3ph + Sw N[2]) + Aux
20A	KG10 T203/GBA168 *RB2		KG10 T204/GBA268 *RB2
25A	KG20 T203/GBA169 *RB2	KG20 T207/GBA175 *RB2	KG20 T204/GBA269 *RB2
32A	KG32 T203/GBA169 *RB2	KG32 T207/GBA175 *RB2	KG32 T204/GBA269 *RB2
40A	KG41 T203/GBA159 *RB2	KG41 T207/GBA175 *RB2	KG41 T204/GBA259 *RB2
63A	KG64 T203/GBA159 *RB2	KG64 T207/GBA175 *RB2	KG64 T204/GBA259 *RB2
80A	KG80 T203/GBA159 *RB3	KG80 T207/GBA175 *RB3	KG80 T204/GBA259 *RB3
100A	KG100 T203/GBA159 *RB3	KG100 T207/GBA175 *RB3	KG100 T204/GBA259 *RB3
125A	KG105 T203/GBA159 *RB3	KG105 T207/GBA175 *RB3	KG105 T204/GBA259 *RB3
125A[3)]	KG125 T203/GBA165 *RB8	KG125 T207/GBA180 *RB8	KG125 T204/GBA265 *RB8
160A	KG160 T203/GBA165 *RB8	KG160 T207/GBA180 *RB8	KG160 T204/GBA265 *RB8
200A	KG210 T203/GBA175 *RB9	KG210 T207/GBA185 *RB9	KG210 T204/GBA275 *RB9
250A	KG250 T203/GBA175 *RB9	KG250 T207/GBA185 *RB9	KG250 T204/GBA275 *RB9
275A			
315A	KG315 T203/GBA175 *RB9	KG315 T207/GBA185 *RB9	KG315 T204/GBA275 *RB9

Main Switches 250A - 1250A 3 & 4 POLE (IP65 with black & red padlockable handle)

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux	3 Pole + Neutral Link + Aux	4 Pole + Aux
250A	UK250/A 3011ST02 *RB25	UK250/A 3111ST02 *RB25	UK250/A 4011ST02 *RB25
315A	UK315/A 3011ST02 *RB26	UK315/A 3111ST02 *RB26	UK315/A 4011ST02 *RB26
400A	UK400/A 3011ST02 *RB26	UK400/A 3111ST02 *RB26	UK400/A 4011ST02 *RB26
630A	UK630/A 3011ST02 *RB27	UK630/A 3111ST02 *RB27	UK630/A 4011ST02 *RB27
800A	UK800/A 3011ST02 *RB28	UK800/A 3111ST02 *RB28	UK800/A 4011ST02 *RB28
1000A	UK1000/A 3011ST02 *RB28	UK1000/A 3111ST02 *RB28	UK1000/A 4011ST02 *RB28
1250A	UK1250/A 3011ST02 *RB28	UK1250/A 3111ST02 *RB28	UK1250/A 4011ST02 *RB28

red painted mild steel enclosure

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d	Cable Entries.	Line Drg.
RB2	194	119	115	8	133	137	6	-	Fig. 4
RB3	254	149	125	8	193	167	6	-	Fig. 4
RB4	309	234	150	8	248	252	6	-	Fig. 4
RB8	400	300	175	-	340	240	6.5	2 x gland plates	Fig. 6
RB9	500	400	175	-	440	340	6.5	2 x gland plates	Fig. 6
RB10	500	400	300	-	440	340	6.5	2 x gland plates	Fig. 6
RB20	250	175	175	-	225	195	6	-	Fig. 4
RB25	650	450	225	-	590	390	6.5	2 x gland plates	Fig. 6
RB26	800	550	225	-	740	490	6.5	2 x gland plates	Fig. 6
RB27	900	600	300	-	840	540	6.5	2 x gland plates	Fig. 6
RB28	1000	800	400	-	940	740	6.5	4 x gland plates	Fig. 6
RB29	750	450	300	-	690	390	6.5	2 x gland plates	Fig. 6

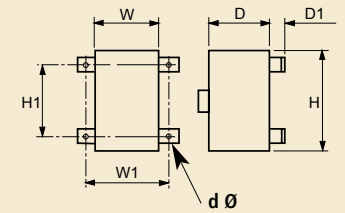


Fig. 4

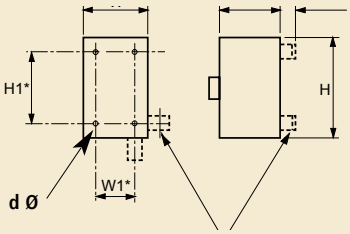


Fig. 6

* External MTG. BKT'S - if fitted, they add 120mm to either W1 or H1 dimension & dØ = 8.5 dia

Please refer to end of part no. for enclosure reference. See tables below:

Back to index

Without Auxiliaries

6 Pole	9 Pole	12 Pole	Ie AC-21A
	UK 20/9000ST01 *RB20	UK 20/12000ST01 *RB20	20A
KG20B T206/GBA309 *RB2	UK 25/9000ST01 *RB20	UK 25/12000ST01 *RB20	25A
KG32B T206/GBA309 *RB2	UK 32/9000ST01 *RB20	UK 32/12000ST01 *RB20	32A
KG41B T206/GBA309 *RB3			40A
KG64B T206/GBA309 *RB3			63A
KG80 T206/GBA309 *RB4			80A
KG100 T206/GBA309 *RB4			100A
KG105 T206/GBA309 *RB4			125A
KG125 T206/GBA309 *RB9			125A[3]
KG160 T206/GBA309 *RB9			160A
C200-4 T206/GBA309 *RB10			200A
			250A
C316 T206/GBA309 *RB10			275A
C316 T206/GBA309 *RB29			315A

With Auxiliaries [1]

6 Pole + Aux	9 Pole + Aux	12 Pole + Aux	Ie AC-21A
	UK 20/9020ST01 *RB20	UK 20/12020ST01 *RB20	20A
KG20B T206/GBA359 *RB2	UK 25/9020ST01 *RB20	UK 25/12020ST01 *RB20	25A
KG32B T206/GBA359 *RB2	UK 32/9020ST01 *RB20	UK 32/12020ST01 *RB20	32A
KG41B T206/GBA359 *RB3			40A
KG64B T206/GBA359 *RB3			63A
KG80 T206/GBA359 *RB4			80A
KG100 T206/GBA359 *RB4			100A
KG105 T206/GBA359 *RB4			125A
KG125 T206/GBA365 *RB9			125A[3]
KG160 T206/GBA365 *RB9			160A
C200-4 T206/GBA385 *RB10			200A
			250A
C316 T206/GBA006 *RB10			275A
C316 T206/GBA365*RB29			315A

Notes

1) The following auxiliary contacts are provided:-

KG10	1 N.O. (early break) + 1 N.C.
KG20 to KG105	2 N.O. (early break)
KG125 to KG315	2 N.O. (early break) + 2 N.C.
UK20 to UK32	2 N.O. (early break)
C316/C200-4	2 N.O. (early break)
UK250/A to UK1250/A	1 N.O. (early break) + 1 N.C.

2) Switched neutral pole is early make/late break.

3) KG125 suitable for applications requiring larger cable termination and increased enclosure size.

OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 20A - 315A 3, 4 & 6 POLE



IP RATING IP66 protection

ENCLOSURE brushed stainless steel, grade 316L

HANDLE OPTION red & yellow padlockable handle
optional black handle available

EARTH TERMINAL included + lid bonding link

FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

Without Auxiliaries

Ie AC-21A	3 Pole		3 Pole + Solid Neutral (TP&N)		4 Pole (3ph + Sw N[2])	
20A	KG10	T203/GBA419 *SB2			KG10	T204/GBA519 *SB2
25A	KG20	T203/GBA419 *SB2	KG20	T207/GBA420 *SB2	KG20	T204/GBA519 *SB2
32A	KG32	T203/GBA419 *SB2	KG32	T207/GBA420 *SB2	KG32	T204/GBA519 *SB2
40A	KG41	T203/GBA409 *SB2	KG41	T207/GBA420 *SB2	KG41	T204/GBA509 *SB2
63A	KG64	T203/GBA409 *SB2	KG64	T207/GBA420 *SB2	KG64	T204/GBA509 *SB2
80A	KG80	T203/GBA409 *SB3	KG80	T207/GBA420 *SB3	KG80	T204/GBA509 *SB3
100A	KG100	T203/GBA409 *SB3	KG100	T207/GBA420 *SB3	KG100	T204/GBA509 *SB3
125A	KG105	T203/GBA409 *SB3	KG105	T207/GBA420 *SB3	KG105	T204/GBA509 *SB3
125A[3)]	KG125	T203/GBA409 *SB8	KG125	T207/GBA420 *SB8	KG125	T204/GBA509 *SB8
160A	KG160	T203/GBA409 *SB8	KG160	T207/GBA420 *SB8	KG160	T204/GBA509 *SB8
200A	KG210	T203/GBA409 *SB9	KG210	T207/GBA420 *SB9	KG210	T204/GBA509 *SB9
250A	KG250	T203/GBA409 *SB9	KG250	T207/GBA420 *SB9	KG250	T204/GBA509 *SB9
315A	KG315	T203/GBA409 *SB9	KG315	T207/GBA420 *SB9	KG315	T204/GBA509 *SB9

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux		3 Pole + Solid Neutral (TP&N) + Aux		4 Pole (3ph + Sw N[2]) + Aux	
20A	KG10	T203/GBA468 *SB2			KG10	T204/GBA568 *SB2
25A	KG20	T203/GBA469 *SB2	KG20	T207/GBA480 *SB2	KG20	T204/GBA569 *SB2
32A	KG32	T203/GBA469 *SB2	KG32	T207/GBA480 *SB2	KG32	T204/GBA569 *SB2
40A	KG41	T203/GBA459 *SB2	KG41	T207/GBA480 *SB2	KG41	T204/GBA559 *SB2
63A	KG64	T203/GBA459 *SB2	KG64	T207/GBA480 *SB2	KG64	T204/GBA559 *SB2
80A	KG80	T203/GBA459 *SB3	KG80	T207/GBA480 *SB3	KG80	T204/GBA559 *SB3
100A	KG100	T203/GBA459 *SB3	KG100	T207/GBA480 *SB3	KG100	T204/GBA559 *SB3
125A	KG105	T203/GBA459 *SB3	KG105	T207/GBA480 *SB3	KG105	T204/GBA559 *SB3
125A[3)]	KG125	T203/GBA475 *SB8	KG125	T207/GBA490 *SB8	KG125	T204/GBA565 *SB8
160A	KG160	T203/GBA475 *SB8	KG160	T207/GBA490 *SB8	KG160	T204/GBA565 *SB8
200A	KG210	T203/GBA485 *SB9	KG210	T207/GBA495 *SB9	KG210	T204/GBA575 *SB9
250A	KG250	T203/GBA485 *SB9	KG250	T207/GBA495 *SB9	KG250	T204/GBA575 *SB9
315A	KG315	T203/GBA485 *SB9	KG315	T207/GBA495 *SB9	KG315	T204/GBA575 *SB9

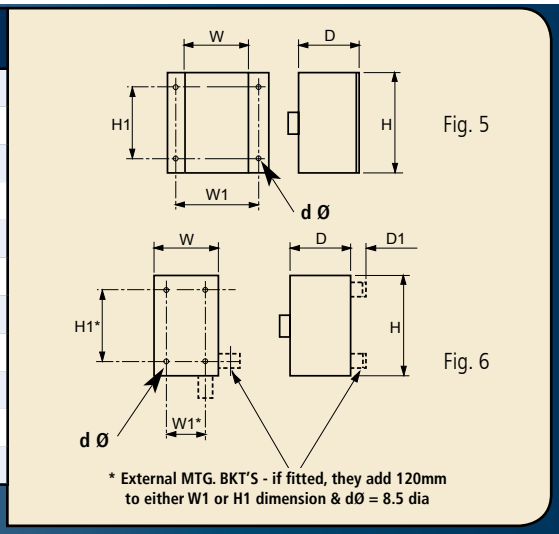
Main Switches 250A - 1250A 3 & 4 POLE (IP65 with black & red padlockable handle)

With Auxiliaries [1]

Ie AC-21A	3 Pole + aux		3 Pole + aux + Neutral Link		4 Pole + aux	
250A	UK250/A	3011ST02 *SB25	UK250/A	3111ST02 *SB25	UK250/A	4011ST02 *SB25
315A	UK315/A	3011ST02 *SB26	UK315/A	3111ST02 *SB26	UK315/A	4011ST02 *SB26
400A	UK400/A	3011ST02 *SB26	UK400/A	3111ST02 *SB26	UK400/A	4011ST02 *SB26
630A	UK630/A	3011ST02 *SB27	UK630/A	3111ST02 *SB27	UK630/A	4011ST02 *SB27
800A	UK800/A	3011ST02 *SB28	UK800/A	3111ST02 *SB28	UK800/A	4011ST02 *SB28
1000A	UK1000/A	3011ST02 *SB28	UK1000/A	3111ST02 *SB28	UK1000/A	4011ST02 *SB28
1250A	UK1250/A	3011ST02 *SB28	UK1250/A	3111ST02 *SB28	UK1250/A	4011ST02 *SB28

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d	Cable Entries.	Line Drg.
SB2	194	119	116	-	133	137	6	-	Fig. 5
SB3	254	149	126	-	193	167	6	-	Fig. 5
SB4	309	234	151	-	248	252	6	-	Fig. 5
SB8	400	300	175	-	340	240	6.5	2 x gland plates	Fig. 6
SB9	500	400	175	-	440	340	6.5	2 x gland plates	Fig. 6
SB10	500	400	300	-	440	340	6.5	2 x gland plates	Fig. 6
SB25	650	450	225	-	590	390	6.5	2 x gland plates	Fig. 6
SB26	800	550	225	-	740	490	6.5	2 x gland plates	Fig. 6
SB27	900	600	300	-	840	540	6.5	2 x gland plates	Fig. 6
SB28	1000	800	400	-	940	740	6.5	4 x gland plates	Fig. 6
SB29	750	450	300	-	690	390	6.5	2 x gland plates	Fig. 6

Please refer to end of part no. for enclosure reference. See tables below:



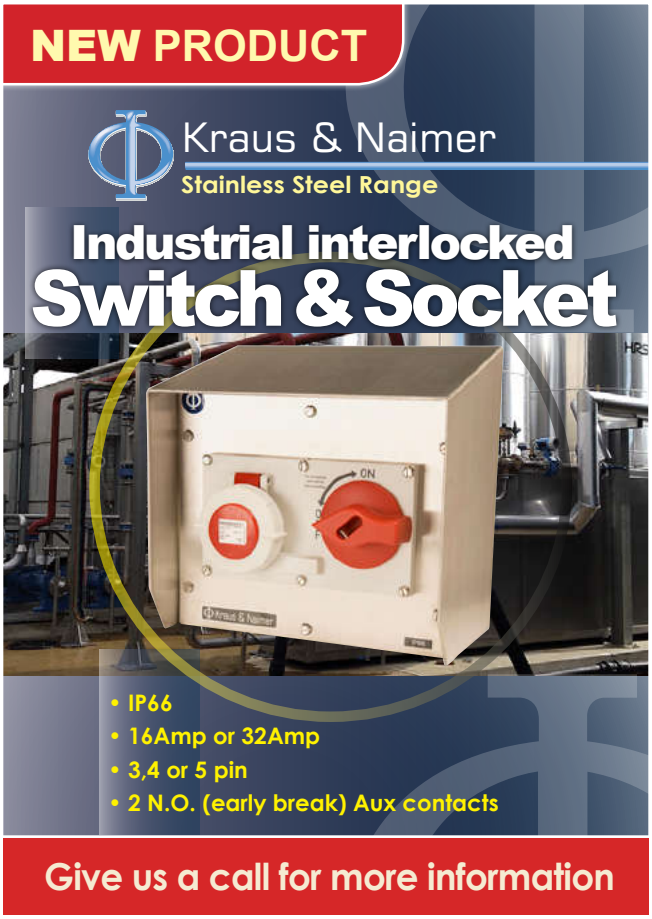
Without Auxiliaries

	6 Pole		Ie AC-21A
			20A
KG20B	T206/GBA609	*SB2	25A
KG32B	T206/GBA609	*SB2	32A
KG41B	T206/GBA609	*SB3	40A
KG64B	T206/GBA609	*SB3	63A
KG80	T206/GBA609	*SB4	80A
KG100	T206/GBA609	*SB4	100A
KG105	T206/GBA609	*SB4	125A[3]
KG125	T206/GBA609	*SB9	125A[3]
KG160	T206/GBA609	*SB9	160A
C200-4	T206/GBA609	*SB10	200A
			250A
C316	T206/GBA609	*SB29	315A

With Auxiliaries [1]

	6 Pole + Aux		Ie AC-21A
			20A
KG20B	T206/GBA659	*SB2	25A
KG32B	T206/GBA659	*SB2	32A
KG41B	T206/GBA659	*SB3	40A
KG64B	T206/GBA659	*SB3	63A
KG80	T206/GBA659	*SB4	80A
KG100	T206/GBA659	*SB4	100A
KG105	T206/GBA659	*SB4	125A
KG125	T206/GBA665	*SB9	125A[3]
KG160	T206/GBA665	*SB9	160A
C200-4	T206/GBA003	*SB10	200A
			250A
C316	T206/GBA659	*SB29	315A

Back to index



Notes

1) The following auxiliary contacts are provided:-

KG10	1 N.O. (early break) + 1 N.C.
KG20 to KG105	2 N.O. (early break)
KG125 to KG315	2 N.O. (early break) + 2 N.C.
UK20 to UK32	2 N.O. (early break)
C316/C200-4	2 N.O. (early break)
UK250/A to UK1250/A	1 N.O. (early break) + 1 N.C.

2) Switched neutral pole is early make/late break.

3) KG125 suitable for applications requiring larger cable termination and increased enclosure size.



OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 25A - 125A 3, 3 + Neutral & 4 POLE



IP RATING IP65 protection

ENCLOSURE brushed stainless steel, grade 304L with integral canopy

HANDLE OPTION red & yellow padlockable handle optional black handle available

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

ADDITIONAL FEATURE sloping roof

Ie AC-21A	Encl. Ref.	3 Pole +2 N.O. aux			3 Pole + solid neutral +2 N.O. aux			
25A	SR04	KG20	T203/GBA630 *SR04		KG20	T207/GBA640 *SR04		
32A	SR04	KG32	T203/GBA630 *SR04		KG32	T207/GBA640 *SR04		
25A[2]	SR14	KG20	T203/GBA601 *SR14		KG20	T207/GBA603 *SR14		
32A[2]	SR14	KG32	T203/GBA601 *SR14		KG32	T207/GBA603 *SR14		
40A	SR14	KG41	T203/GBA601 *SR14		KG41	T207/GBA603 *SR14		
63A	SR14	KG64	T203/GBA601 *SR14		KG64	T207/GBA603 *SR14		
80A	SR24	KG80	T203/GBA601 *SR24		KG80	T207/GBA603 *SR24		
100A	SR24	KG100	T203/GBA601 *SR24		KG100	T207/GBA603 *SR24		
125A	SR24	KG105	T203/GBA601 *SR24		KG105	T207/GBA603 *SR24		

Main/Emergency-Off Switch 25A - 125A 3, 3 + Neutral & 4 POLE





IP RATING IP65 protection

ENCLOSURE brushed stainless steel, grade 304L, with integral canopy

HANDLE OPTION red & yellow padlockable handle optional black handle available

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

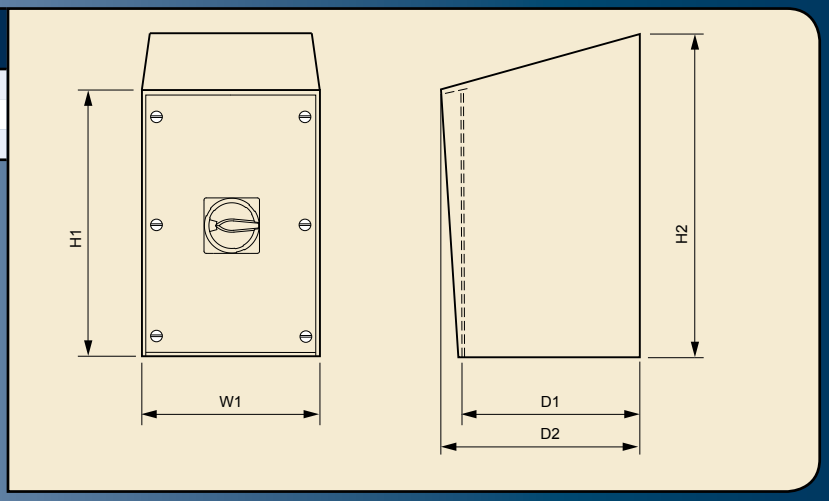
ADD. FEATURE sloping roof with welded mounting plate

Ie AC-21A	Encl. Ref.	3 Pole +2 N.O. aux			3 Pole + solid neutral +2 N.O. aux			
25A	SR04L	KG20	T203/GBA660 *SR04L		KG20	T207/GBA670 *SR04L		
32A	SR04L	KG32	T203/GBA660 *SR04L		KG32	T207/GBA670 *SR04L		
25A[2]	SR14L	KG20	T203/GBA601 *SR14L		KG20	T207/GBA603 *SR14L		
32A[2]	SR14L	KG32	T203/GBA601 *SR14L		KG32	T207/GBA603 *SR14L		
40A	SR14L	KG41	T203/GBA601 *SR14L		KG41	T207/GBA603 *SR14L		
63A	SR14L	KG64	T203/GBA601 *SR14L		KG64	T207/GBA603 *SR14L		
80A	SR24L	KG80	T203/GBA601 *SR24L		KG80	T207/GBA603 *SR24L		
100A	SR24L	KG100	T203/GBA601 *SR24L		KG100	T207/GBA603 *SR24L		
125A	SR24L	KG105	T203/GBA601 *SR24L		KG105	T207/GBA603 *SR24L		

sloping roof - stainless steel enclosure

Encl. Ref.	Front Plate H1	W1	Side View D1	D2	H2
SR04	170	130	103	122	196
SR14	193	130	132	151	234
SR24	278	185	152	170	324

Please refer to the Encl. Ref. column in table below for enclosure reference:



	4 Pole (3ph + Sw N[1]) +2 N.O. aux		Ie AC-21A
KG20	T204/GBA650 *SR04		25A
KG32	T204/GBA650 *SR04		32A
KG20	T204/GBA602 *SR14		25A[2]
KG32	T204/GBA602 *SR14		32A[2]
KG41	T204/GBA602 *SR14		40A
KG64	T204/GBA602 *SR14		63A
KG80	T204/GBA602 *SR24		80A
KG100	T204/GBA602 *SR24		100A
KG105	T204/GBA602 *SR24		125A

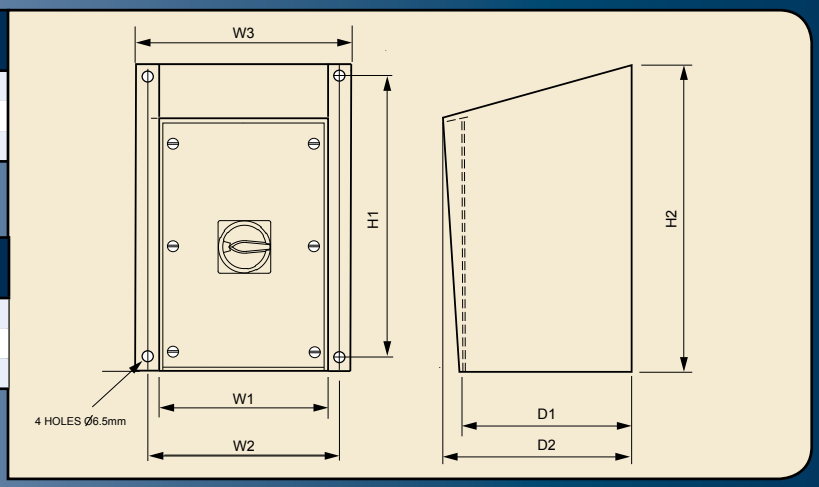
Note 1) Switched neutral pole is early make/late break.
2) Larger enclosure size (SR14)

Back to index

Encl. Ref.	Front View H1	W1	W2	W3
SR04L	171	130	155	180
SR14L	209	130	155	180
SR24L	299	185	210	260

Encl. Ref.	Side View H2	D1	D2
SR04L	196	104.2	123.2
SR14L	234	133.2	152.2
SR24L	324	153.2	171.2

Please refer to the Encl. Ref. column in table below for enclosure reference:



	4 Pole (3ph + Sw N[1]) +2 N.O. aux		Ie AC-21A
KG20	T204/GBA680 *SR04L		25A
KG32	T204/GBA680 *SR04L		32A
KG20	T204/GBA602 *SR14L		25A[2]
KG32	T204/GBA602 *SR14L		32A[2]
KG41	T204/GBA602 *SR14L		40A
KG64	T204/GBA602 *SR14L		63A
KG80	T204/GBA602 *SR24L		80A
KG100	T204/GBA602 *SR24L		100A
KG105	T204/GBA602 *SR24L		125A



The 15° sloping roof deflects water and prevents items from being placed on top of the enclosure, making it easier and safer to clean

Note 1) Switched neutral pole is early make/late break.
2) Larger enclosure size (SR14L)

OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 25A - 315A 3, 4 & 6 POLE



IP& IK RATING IP66 + IK10 protection

ENCLOSURE GRP, grey RAL7035

HANDLE OPTION red & yellow padlockable handle optional black handle available

EARTH TERMINAL included

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

Without Auxiliaries

Ie AC-21A	3 Pole		3 Pole + Solid Neutral (TP&N)		4 Pole (3ph + Sw N[2])	
25A	KG20	T203/GB00U2 *GP1	KG20	T207/GB00U2 *GP1	KG20	T204/GB00U2 *GP1
32A	KG32	T203/GB00U2 *GP1	KG32	T207/GB00U2 *GP1	KG32	T204/GB00U2 *GP1
40A	KG41	T203/GB00U2 *GP1	KG41	T207/GB00U2 *GP1	KG41	T204/GB00U2 *GP1
63A	KG64	T203/GB00U2 *GP1	KG64	T207/GB00U2 *GP1	KG64	T204/GB00U2 *GP1
80A	KG80	T203/GB00U2 *GP1	KG80	T207/GB00U2 *GP1	KG80	T204/GB00U2 *GP1
100A	KG100	T203/GB00U2 *GP1	KG100	T207/GB00U2 *GP1	KG100	T204/GB00U2 *GP1
125A	KG105	T203/GB00U2 *GP1	KG105	T207/GB00U2 *GP1	KG105	T204/GB00U2 *GP1
125A[3)]	KG125	T203/GB00T2 *GP6	KG125	T207/GB00T2 *GP6	KG125	T204/GB00T2 *GP6
160A	KG160	T203/GB00T2 *GP6	KG160	T207/GB00T2 *GP6	KG160	T204/GB00T2 *GP6
200A	KG210	T203/GB00T1 *GP6	KG210	T207/GB00T1 *GP6	KG210	T204/GB00T1 *GP6
250A	KG250	T203/GB00T1 *GP6	KG250	T207/GB00T1 *GP6	KG250	T204/GB00T1 *GP6
315A	KG315	T203/GB00T1 *GP6	KG315	T207/GB00T1 *GP6	KG315	T204/GB00T1 *GP6

With Auxiliaries [1]

Ie AC-21A	3 Pole + Aux		3 Pole + Solid Neutral (TP&N) + Aux		4 Pole (3ph + Sw N[2]) + Aux	
25A	KG20	T203/GB20U2 *GP1	KG20	T207/GB20U2 *GP1	KG20	T204/GB20U2 *GP1
32A	KG32	T203/GB20U2 *GP1	KG32	T207/GB20U2 *GP1	KG32	T204/GB20U2 *GP1
40A	KG41	T203/GB20U2 *GP1	KG41	T207/GB20U2 *GP1	KG41	T204/GB20U2 *GP1
63A	KG64	T203/GB20U2 *GP1	KG64	T207/GB20U2 *GP1	KG64	T204/GB20U2 *GP1
80A	KG80	T203/GB20U2 *GP1	KG80	T207/GB20U2 *GP1	KG80	T204/GB20U2 *GP1
100A	KG100	T203/GB20U2 *GP1	KG100	T207/GB20U2 *GP1	KG100	T204/GB20U2 *GP1
125A	KG105	T203/GB20U2 *GP1	KG105	T207/GB20U2 *GP1	KG105	T204/GB20U2 *GP1
125A[3)]	KG125	T203/GB22T2 *GP6	KG125	T207/GB22T2 *GP6	KG125	T204/GB22T2 *GP6
160A	KG160	T203/GB22T2 *GP6	KG160	T207/GB22T2 *GP6	KG160	T204/GB22T2 *GP6
200A	KG210	T203/GB22T1 *GP6	KG210	T207/GB22T1 *GP6	KG210	T204/GB22T1 *GP6
250A	KG250	T203/GB22T1 *GP6	KG250	T207/GB22T1 *GP6	KG250	T204/GB22T1 *GP6
315A	KG315	T203/GB22T1 *GP6	KG315	T207/GB22T1 *GP6	KG315	T204/GB22T1 *GP6

Main/Emergency-Off Switch Flush Mounting 20A - 63A 2, 3 & 4 POLE



IP RATING IP40 protection (IP65 achievable using suitable sealant)

MOUNTING PLATE brushed stainless steel, grade 316L

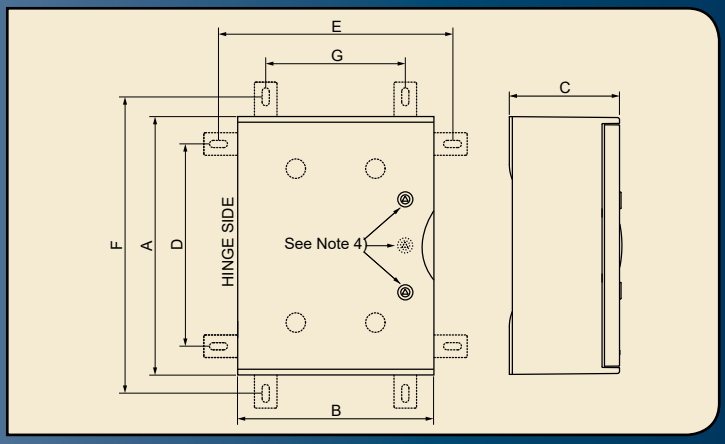
HANDLE OPTION red and yellow padlockable handle optional black handle available

Ie AC-21A	Order Code No.	
2 pole		
20A	KG10	T202/GBA011*SF1
3 pole		
20A	KG10	T203/GBA286*SF1
25A	KG20	T203/GBA286*SF2
32A	KG32	T203/GBA286*SF2
40A	KG41	T203/GBA286*SF3
63A	KG64	T203/GBA286*SF3
4 pole		
20A	KG10	T204/GBA304*SF1
25A	KG20	T204/GBA304*SF2
32A	KG32	T204/GBA304*SF2
40A	KG41	T204/GBA304*SF3
63A	KG64	T204/GBA304*SF3

GRP enclosure

Encl. Ref.	A	B	C	D	E	F	G
GP1	300	265	165	222	316	354	184
GP3	425	325	180	348	377	480	245
GP6	500	430	210	423	485	555	353
GP23	650	540	260	573	594	705	462
GP27	805	615	315	723	665	855	533

Please refer to end of part no. for enclosure reference.
See tables below:



Back to index

Without Auxiliaries

	6 Pole		Ie AC-21A
KG20B	T206/GB00U2 *GP1		25A
KG32B	T206/GB00U2 *GP1		32A
KG41B	T206/GB00U2 *GP1		40A
KG64B	T206/GB00U2 *GP1		63A
KG80	T206/GB00U2 *GP3		80A
KG100	T206/GB00U2 *GP3		100A
KG105	T206/GB00U2 *GP3		125A
KG125	T206/GB00T2 *GP6		125A[3]
KG160	T206/GB00T2 *GP6		160A
C200-4	T206/GB00T1 *GP23		200A
			250A
C316	T206/GB00T1 *GP27		315A

With Auxiliaries [1]

	6 Pole + Aux		Ie AC-21A
KG20B	T206/GB20U2 *GP1		25A
KG32B	T206/GB20U2 *GP1		32A
KG41B	T206/GB20U2 *GP1		40A
KG64B	T206/GB20U2 *GP1		63A
KG80	T206/GB20U2 *GP3		80A
KG100	T206/GB20U2 *GP3		100A
KG105	T206/GB20U2 *GP3		125A
KG125	T206/GB22T2 *GP6		125A[3]
KG160	T206/GB22T2 *GP6		160A
C200-4	T206/GB22T1 *GP23		200A
			250A
C316	T206/GB22T1 *GP27		315A

Options can include:

- terminal blocks
- lid mounted push buttons & pilot lights
- emergency stop push button
- lockable door
- defeatable door interlock

External mounting brackets (which can be fitted either vertically or horizontally) are included as standard.

Notes

1) The following auxiliary contacts are provided:-
KG20 to KG105 2 N.O. (early break)
KG125 to KG315 2 N.O. (early break) + 2 N.C.
C200-4 & C316 2 N.O. (early break)

2) Switched neutral pole is early make/late break.

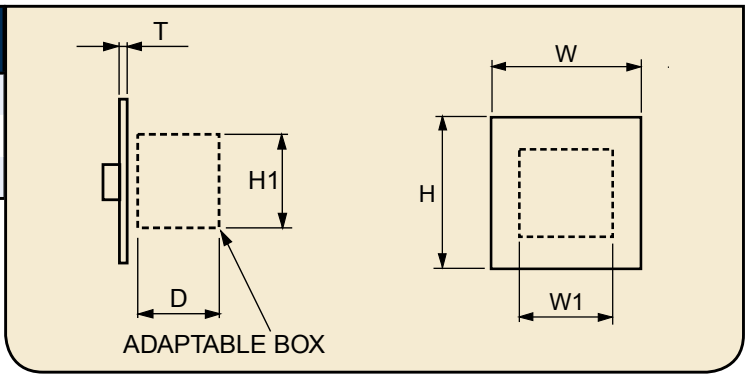
3) KG125 suitable for applications requiring larger cable termination and increased enclosure size.

4) GP1 enclosures have only 1 quarter turn lock, GP3, GP6, GP23 & GP27 enclosures have 2 quarter turn locks.

stainless steel plate + galvanised steel adaptable box

Encl. Ref.	Front Plate H	W	T	Adaptable Box H1	W1	D	Cable Entries.
SF1	100	100	2	78	78	77	8 x 20mm k'outs
SF2	125	125	2	103	103	77	12 x 20mm k'outs
SF3	175	175	2	153	153	102	16 x 20mm k'outs

Please refer to end of part no. for enclosure reference.
See adjacent table.



OFF-ON / SWITCH DISCONNECTORS

Main/Emergency-Off Switch 25A - 315A 3, 4 & 6 POLE



IP& IK RATING IP66 + IK10 protection

ENCLOSURE GRP, grey (RAL7035) or red (RAL3000)

HANDLE OPTION red & yellow padlockable handle optional black handle available

EARTH TERMINAL included

FEATURE key lockable hinged lid, with interlock to prevent opening in the "ON" position

Combine a number of different switches & devices in one enclosure.

Kraus & Naimer offer a standard range of rotary isolators and changeover switches in GRP enclosures ranging from 25A to 315A, from 3 - 6 Pole and can also offer a variety of different fitted options from stock.



Main/Emergency-Off Switch 20A - 315A 3 & 6 POLE



FEATURES interlocked lid

integral metal plate to maintain cable screen continuity between input and output cables.

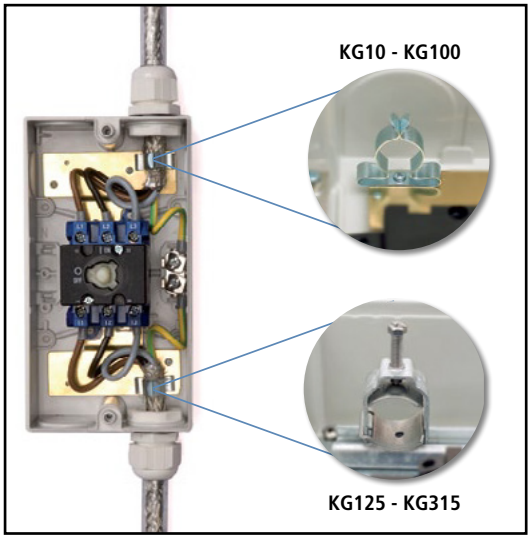
Screen termination by spring clamp (KG10-KG100) or screw clamp (KG125 - KG315).

Connections for screened control cables also available

IP RATING IP66/67 protection

ENCLOSURE grey insulated

HANDLE OPTION red and yellow padlockable handle optional black handle available



Screen Cable Dimensions (mm)	
KG10	8 -11
KG20, KG32, KG20B, KG32B	11 - 17
KG41, KG64	11 - 17
KG41B, KG64B	22 - 30
KG80, KG100	22 - 30
KG80C, KG100C	28 - 34
KG125 - KG250	34 - 40
KG315	46 - 52

All-in-one solution

Combine a number of different switches/devices in one enclosure.

- Faster & safer installation
- Maximum flexibility
- Cost effective



Options include:



Please contact us to discuss your exact requirements. Our team are highly trained and ready to help with any technical questions you may have.

Back to index

EMC compliant connection

Encl. Ref.	Encl. Dim. H	W	D	Encl. Dim. H1	W1	d	Line Drg.
KS51V	120	85	90	110	-	4.2	Fig. 1
KL51V	160	85	82	150	-	5.6	Fig. 1
KL11V	190	100	93	178	-	5.6	Fig. 1
KL71V	250	145	107	229	124	6.5	Fig. 2
STM (3 Pole)	560	280	180	534	254	7	Fig. 2
STM (6 Pole)	560	380	180	534	354	7	Fig. 2

Fig. 1

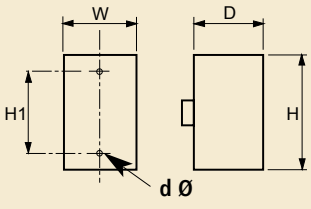
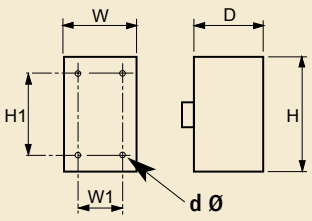


Fig. 2



Please refer to the Encl. Ref. column in table below for enclosure reference:

Ie AC-21A	3 Pole + 1 n/o + 1 n/c aux	Encl. Ref		6 Pole + 1 n/o + 1 n/c aux	Encl. Ref	
20A	KG10 T203/D-A076 KS51V	KS51V				
25A	KG20 T203/D-A159 KL51V	KL51V		KG20B T206/D-A059 KL11V	KL11V	
32A	KG32 T203/D-A117 KL51V	KL51V		KG32B T206/D-A054 KL11V	KL11V	
40A	KG41 T203/D-A145 KL11V	KL11V		KG41B T206/D-A052 KL11V	KL71V	
63A	KG64 T203/D-A173 KL11V	KL11V		KG64B T206/D-A066 KL11V	KL71V	
80A	KG80 T203/D-A108 KL71V	KL71V		KG80C T206/D-A070 STM	STM	
100A	KG100 T203/D-A120 KL71V	KL71V		KG100C T206/D-A060 STM	STM	
125A	KG125 T203/D-A082 STM	STM		KG125 T206/D-A020 STM	STM	
160A	KG160 T203/D-A077 STM	STM		KG160 T206/D-A040 STM	STM	
250A	KG250 T203/D-A075 STM	STM				
315A	KG315 T203/D-A034 STM	STM				

AC Switch Disconnectors - Single & Three Phase AC-21A 25 - 40A



IP RATING	IP66/67 protection
ENCLOSURE	grey insulated (RAL7035)
HANDLE OPTION	red/yellow padlockable
EARTH TERMINAL	included
FEATURE	switch interlocked with lid to prevent opening in 'ON' position

AC Switch Disconnectors - for Single Phase

Single Phase

Current Rating AC-21A (per contact)	Order Code No.	FIG.	
25A	KG20 T203/GBA270*KS1V	FIG 4	
25A	KG20 T203/GBA294*KL[1)]	FIG 1	
32A	KG32 T203/GBA294*KL[1)]	FIG 1	
40A	KG41 T203/GBA270*KL1V	FIG 2	

AC Switch Disconnectors - for Three Phase (3ph + Sw N[2)])

Three Phase

Current Rating AC-21A (per contact)	Order Code No.	FIG.	
25A	KG20 T204/GBA290*KS1V	FIG 4	
25A	KG20 T204/GBA486 KL51V[1)]	FIG 1	
32A	KG32 T204/GBA486 KL51V[1)]	FIG 1	
40A	KG41 T204/GBA290*KL1V	FIG 2	

[1)] Larger enclosure to match KG20/32 T104 DC enclosure
[2)] Switched neutral pole is early make / late break.

FIG.1

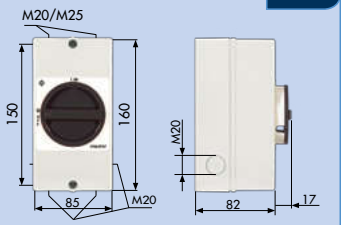


FIG.2

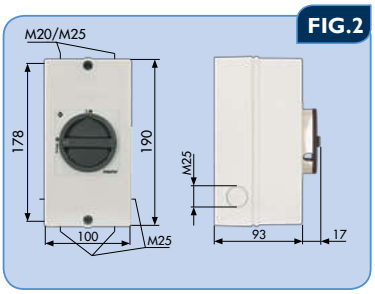


FIG.3

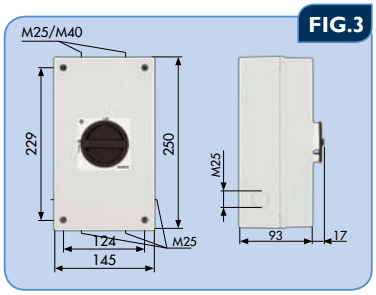
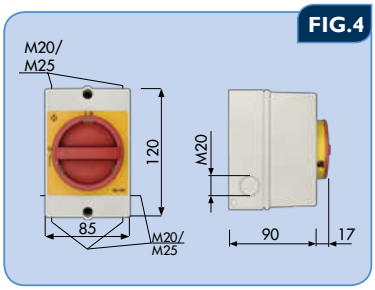
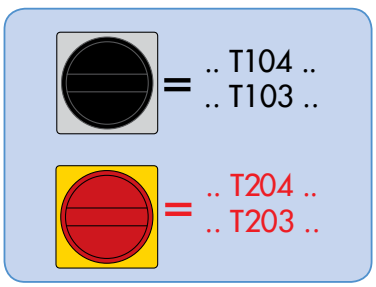


FIG.4





220 - 1000A Single & Two String DC-21B - DC Switch Disconnectors

Back to index

IP RATING IP66/67 protection

ENCLOSURE grey insulated (RAL7035)

HANDLE OPTION black/grey padlockable handle

FEATURES switch is interlocked with the lid to prevent opening in 'ON' position

class II compliant
rated for use in ambient temperatures up to 50°C

non-polarity sensitive

KGD40 - up to 50 amps @1000 VDC to give higher rating achieved by use of permanent magnets in the contact body used to reduce arcing time



Single String DC Switch Disconnectors - Selection Chart DC-21B (DC-PV1)

Single String

Voltage													Order Code No.	FIG.	
250V	375V	400V	450V	500V	600V	650V	660V	750V	800V	850V	920V	1000V			
25A	25A	25A	25A	21A	20A	20A	18A	18A	18A	11A	11A		KG20 T104/D-P003 KL51V	FIG 1	
					25A	25A	23A	23A	23A	15A	15A	12A	KG32 T104/D-P003 KL51V	FIG 1	
50A	40A	40A	30A	30A									KGD40 TD102/D-P003 KL11V	FIG 2	
	50A		40A	40A	40A	30A	30A	30A		20A	20A	20A	KGD40 TD103/D-P003 KL11V	FIG 2	
		50A	50A	50A		40A	40A	40A	40A	30A	30A	30A	KGD40 TD104/D-P003 KL11V	FIG 2	
					50A	50A	50A	50A		40A	40A	40A	KGD40B TD106/D-P003 KL11V	FIG 3	
									50A	50A	50A	50A	KGD40B TD108/D-P003 KL11V	FIG 3	

Two String DC Switch Disconnectors - Selection Chart DC-21B (DC-PV1)

Two String

Ratings Per String (220V - 500V)											Order Code No.	FIG.	
220V	250V	280V	330V	340V	375V	400V	420V	440V	460V	500V			
25A	21A	21A	20A	20A	18A	18A	11A	11A	11A		KG20 T104/GB-P103 KL51V	FIG 1	
28A	28A	28A	25A	25A	23A	23A	15A	15A	15A	12A	KG32 T104/GB-P103 KL51V	FIG 1	
50A	50A	40A	40A	40A	40A	40A	30A	30A	30A	30A	KGD40 TD104/D-P004 KL11V	FIG 2	
		50A	50A	50A	50A		40A	40A	40A	40A	KGD40B TD106/D-P004 KL11V	FIG 3	
						50A	50A	50A	50A	50A	KGD40B TD108/D-P004 KL11V	FIG 3	

Ratings Per String (510V - 1000V)											Order Code No.	FIG.	
510V	560V	600V	660V	680V	690V	750V	800V	920V	1000V				
20A	20A	20A	20A	12A	12A	12A	12A	8A	8A		KGD40 TD104/D-P004 KL11V	FIG 2	
25A	23A	23A		15A	15A						KG32B T106/GB-P103 KL11V	FIG 2	
				20A	18A	18A	18A	11A			KG20B T108/GB-P103 KL11V	FIG 3	
40A	40A	40A	30A	30A	30A	30A	20A	20A	20A		KGD40B TD106/D-P004 KL11V	FIG 3	
			40A	40A	40A	40A	40A	30A	30A		KGD40B TD108/D-P004 KL11V	FIG 3	

Please select the switch disconnector according to the maximum voltage and current output of all upstream PV modules, this must include all corrective factors according to relevant standards. **DC-PV2** ratings available on request.

CHANGEOVER / SWITCH DISCONNECTORS

Changeover Switch with centre off 16A - 160A 2, 3 & 4 POLE

Insulated



- IP66/67 protection
- auxiliary contacts provided with 3 & 4 pole switches
- black & red handle, padlockable in'OFF' position
- earth terminal
- grey insulated enclosed (RAL7035)
- switch interlocked with lid to prevent opening in 'ON' position

Ie AC-21A	2 Pole		Encl. Ref
16A	KH16	T902/GBA002 *KS52	KSA
20A	KH20	T902/GBA002 *KS52	KSA
25A	KH25	T902/GBA002 *KS52	KSA
32A	KH32	T902/GBA002 *KL12	KLC
40A	KH40	T902/GBA002 *KL12	KLC
63A	KH63	T902/GBA002 *KL72	KLE
80A	KH80	T902/GBA002 *KL72	KLE
100A	KH85	T902/GBA012 *KL72	KLE
125A			
125A[3)]			
160A			

Mild Steel



- IP66 protection
- auxiliary contacts provided with 3 & 4 pole switches
- black & red handle, padlockable in'OFF' position
- earth terminal & lid bonding link included
- grey powder paint finish (RAL7032) also available in red powder paint finish (RAL3000)
- switch interlocked with lid to prevent opening in 'ON' position

Ie AC-21A	2 Pole		Encl. Ref
16A	KH16	T902/GBA020 *MB2	MB2
20A	KH20	T902/GBA020 *MB2	MB2
25A	KH25	T902/GBA020 *MB2	MB2
32A	KH32	T902/GBA020 *MB2	MB2
40A	KH40	T902/GBA020 *MB2	MB2
63A	KH63	T902/GBA020 *MB3	MB3
80A	KH80	T902/GBA020 *MB3	MB3
100A	KH85	T902/GBA020 *MB3	MB3
125A			
125A[3)]			
160A			

Stainless Steel



- IP66 protection
- auxiliary contacts provided with 3 & 4 pole switches
- black & red handle, padlockable in'OFF' position
- earth terminal & lid bonding link included
- stainless steel enclosure, grade 316L
- switch interlocked with lid to prevent opening in 'ON' positions

Ie AC-21A	2 Pole		Encl. Ref
16A	KH16	T902/GBA025 *SB2	SB2
20A	KH20	T902/GBA025 *SB2	SB2
25A	KH25	T902/GBA025 *SB2	SB2
32A	KH32	T902/GBA025 *SB2	SB2
40A	KH40	T902/GBA025 *SB2	SB2
63A	KH63	T902/GBA025 *SB3	SB3
80A	KH80	T902/GBA025 *SB3	SB3
100A	KH85	T902/GBA025 *SB3	SB3
125A			
125A[3)]			
160A			

Notes

1) 2-off electrically isolated early break auxiliary contacts are provided with the 3 & 4 pole switches. One of these contacts closes in position 1 and the other contact closes in position 2. Both of the contacts are open in the Off position.
2) Switched neutral pole is early make/late break.
3) KG125 suitable for applications requiring larger cable termination and increased enclosure size than the KG105.



	3 Pole[1]		Encl. Ref		4 Pole (3ph+Sw N²)[1]		Encl. Ref
	KG20B	T903/GBA013 *KL	KLC		KG20B	T904/GBA014 *KL	KLD
	KG32B	T903/GBA013 *KL	KLC		KG32B	T904/GBA014 *KL	KLD
	KG41B	T903/GBA013 *KL	KLD		KG41B	T904/GBA004 *ST	ST2
	KG64B	T903/GBA013 *KL	KLD		KG64B	T904/GBA004 *ST	ST2
	KG80	T903/GBA013 *ST	STE		KG80	T904/GBA004 *ST	ST3
	KG100	T903/GBA013 *ST	STE		KG100	T904/GBA004 *ST	ST3
	KG105	T903/GBA013 *ST	STE		KG105	T904/GBA004 *ST	ST3
	KG125	T903/GBA035 *ST	ST4		KG125	T904/GBA045 *ST	ST4
	KG160	T903/GBA035 *ST	ST4		KG160	T904/GBA045 *ST	ST4

	3 Pole[1]		Encl. Ref		4 Pole (3ph+Sw N²)[1]		Encl. Ref
	KG20B	T903/GBA030 *MB3	MB3		KG20B	T904/GBA040 *MB3	MB3
	KG32B	T903/GBA030 *MB3	MB3		KG32B	T904/GBA040 *MB3	MB3
	KG41B	T903/GBA030 *MB3	MB3		KG41B	T904/GBA040 *MB3	MB3
	KG64B	T903/GBA030 *MB3	MB3		KG64B	T904/GBA040 *MB3	MB3
	KG80	T903/GBA030 *MB4	MB4		KG80	T904/GBA040 *MB4	MB4
	KG100	T903/GBA030 *MB4	MB4		KG100	T904/GBA040 *MB4	MB4
	KG105	T903/GBA030 *MB4	MB4		KG105	T904/GBA040 *MB4	MB4
	KG125	T903/GBA055 *MB9	MB9		KG125	T904/GBA065 *MB9	MB9
	KG160	T903/GBA055 *MB9	MB9		KG160	T904/GBA065 *MB9	MB9

Back to index

	3 Pole[1]		Encl. Ref		4 Pole (3ph+Sw N²)[1]		Encl. Ref
	KG20B	T903/GBA050 *SB3	SB3		KG20B	T904/GBA060 *SB3	SB3
	KG32B	T903/GBA050 *SB3	SB3		KG32B	T904/GBA060 *SB3	SB3
	KG41B	T903/GBA050 *SB3	SB3		KG41B	T904/GBA060 *SB3	SB3
	KG64B	T903/GBA050 *SB3	SB3		KG64B	T904/GBA060 *SB3	SB3
	KG80	T903/GBA050 *SB4	SB4		KG80	T904/GBA060 *SB4	SB4
	KG100	T903/GBA050 *SB4	SB4		KG100	T904/GBA060 *SB4	SB4
	KG105	T903/GBA050 *SB4	SB4		KG105	T904/GBA060 *SB4	SB4
	KG125	T903/GBA075 *SB9	SB9		KG125	T904/GBA085 *SB9	SB9
	KG160	T903/GBA075 *SB9	SB9		KG160	T904/GBA085 *SB9	SB9

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d
KSA	120	85	80	-	110	-	4.2
KLC	190	100	91	-	178	-	5.6
KLD	250	145	107	-	229	124	6.5
KLE	250	145	107	-	229	124	6.5
STE	280	190	230	-	254	164	7
ST2	280	190	130	-	254	164	7
ST3	380	280	180	-	354	254	7
ST4	560	380	180	-	534	354	7
MB2	194	119	115	-	133	137	6
MB3	254	149	125	8	193	167	6
MB4	309	234	150	8	248	252	6
MB9	500	400	175	-	440	340	6.5
SB2	194	119	116.5	-	133	137	6
SB3	254	149	126.5	-	193	167	6
SB4	309	234	151.5	-	248	252	6
SB9	500	400	175	-	440	340	6.5

Encl. Ref.	Cable Entries.	Line Drg.
KSA	4 x 20/25mm k'outs	Fig. 1
KLC	4 x 20/25mm k'outs	Fig. 1
KLD	4 x 25/40mm k'outs	Fig. 2
KLE	4 x 25/40mm k'outs	Fig. 2
STE	1 x gland plate	Fig. 2
ST2	2 x gland plates	Fig. 2
ST3	2 x gland plates	Fig. 2
ST4	2 x gland plates	Fig. 2
MB2	-	Fig. 4
MB3	-	Fig. 4
MB4	-	Fig. 4
MB9	2 x gland plates	Fig. 6
SB2	-	Fig. 5
SB3	-	Fig. 5
SB4	-	Fig. 5
SB9	2 x gland plates	Fig. 6

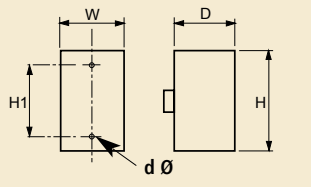


Fig. 1

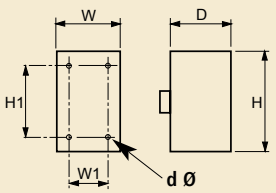


Fig. 2

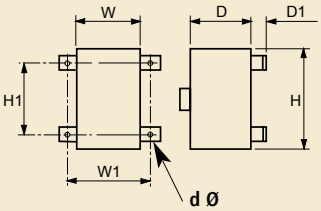


Fig. 4

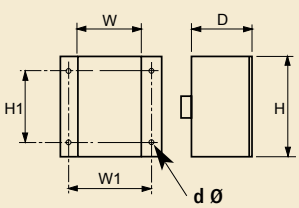


Fig. 5

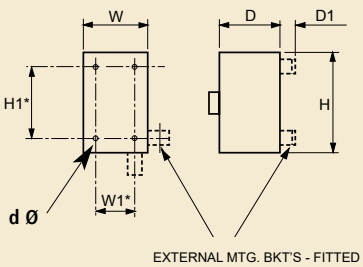


Fig. 6

CHANGEOVER / SWITCH DISCONNECTORS

Changeover Switch with centre off 16A - 315A 2, 3 & 4 POLE



IP& IK RATING IP66 + IK10 protection

ENCLOSURE GRP, grey (RAL7035)

HANDLE OPTION black & red padlockable handle

EARTH TERMINAL included

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

Ie AC-21A	2 Pole			3 Pole + aux[1]			
16A	KH16	T902/GBC0T1 *GP2					
20A	KH20	T902/GBC0T1 *GP2					
25A	KH25	T902/GBC0T1 *GP2		KG20B	T903/GBC1U1 *GP1		
32A	KH32	T902/GBC0T1 *GP2		KG32B	T903/GBC1U1 *GP1		
40A	KH40	T902/GBC0T1 *GP2		KG41B	T903/GBC1U1 *GP1		
63A	KH63	T902/GBC0T1 *GP2		KG64B	T903/GBC1U1 *GP1		
80A	KH80	T902/GBC0T1 *GP2		KG80	T903/GBC1U1 *GP3		
100A	KH85	T902/GBC0T1 *GP2		KG100	T903/GBC1U1 *GP3		
125A				KG105	T903/GBC1U1 *GP3		
125A[3)]				KG125	T903/GBC1T1 *GP6		
160A				KG160	T903/GBC1T1 *GP6		
200A				C200-4	T903/GBC1T1 *GP23		
315A				C316	T903/GBC1T1 *GP27		

If padlocking in "ALL POSITIONS" is required then change the 6th character of the GBC references to "6" For example:

Part no - KH16 T902/GBC0T1 *GP2 becomes KH16 T902/GBC0T6 *GP2 pricing remains the same.

LOAD SWITCH - Changeover Switch with Centre Off 32A - 315A 4 POLE



IP RATING IP66 protection

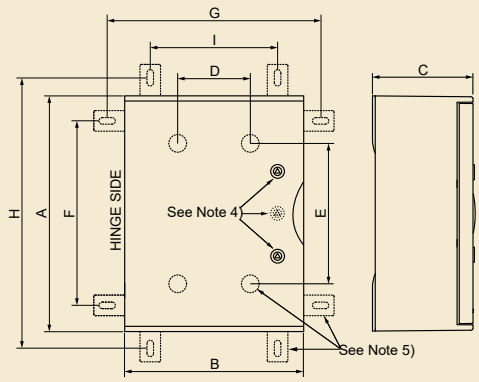
ENCLOSURE mild steel, grey powder paint finish RAL7032

HANDLE OPTION black and red padlockable handle

Ie AC-21A	Order Code No.		Encl. Ref.	
4 Pole				
32A	CA25	A213/GBA009 *MB20	MB20	
40A	C32	A213/GBA009 *MB20	MB20	
63A	C42	A213/GBA009 *MB20	MB20	
100A	C80	A213/GBA009 *MB22	MB22	
150A	C125	A213/GBA009 *MB22	MB22	
200A	C200-4	A213/GBA002 *MB10	MB10	
275A	C315	A213/GBA002 *MB10	MB10	
315A	C315	A213/GBA010 *MB29	MB29	

Encl. Ref.	A	B	C	D	E	F	G	H	I
GP1/GP2	303	265	167	110	150	222	316	354	184
GP3	428	325	183	132	255	348	377	480	245
GP6	500	430	210	240	330	423	485	555	353
GP23	654	543	265	348	480	573	594	705	462
GP27	806	616	319	420	630	723	665	855	533

Please refer to end of part no. for enclosure ref.



Options can include:

- terminal blocks
- lid mounted push buttons & pilot lights
- emergency stop push button
- key lockable door handle

	4 Pole (3ph + Sw N[2]) + aux[1]		Ie AC-21A
			16A
			20A
KG20B	T904/GBC1U1 *GP1		25A
KG32B	T904/GBC1U1 *GP1		32A
KG41B	T904/GBC1U1 *GP1		40A
KG64B	T904/GBC1U1 *GP1		63A
KG80	T904/GBC1U1 *GP3		80A
KG100	T904/GBC1U1 *GP3		100A
KG105	T904/GBC1U1 *GP3		125A
KG125	T904/GBC1T1 *GP6		125A[3)]
KG160	T904/GBC1T1 *GP6		160A
C200-4	T904/GBC1T1 *GP23		200A
C316	T904/GBC1T1 *GP27		315A

Back to index

Notes

1) 2-off electrically isolated early break auxiliary contacts are provided. One of these contacts closes in position 1 and the other contact closes in position 2. Both of the contacts are open in the OFF position.

2) Switched neutral pole is early make/late break.

3) KG125 suitable for applications requiring larger cable termination and increased enclosure size.

4) GP1/GP2 enclosures have 1 quarter turn lock, GP3, GP6, GP23 & GP27 enclosures have 2 quarter turn locks.

5) Dimensions 'D' and 'E' show the position for drilling internal fixing holes. External mounting brackets, which can be fixed either horizontally or vertically, are included with each switch.

EARTH TERMINAL included + lid bonding link

SAFETY FEATURE switch is interlocked with the lid to prevent opening in 'ON' position

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d
MB10	500	400	300	-	440	340	6.5
MB20	250	175	175	-	225	195	6
MB22	400	300	275	-	340	240	6.5
MB29	750	450	300	-	690	390	6.5

Encl. Ref.	Cable Entries.	Line Drg.
MB10	2 x gland plates	Fig. 6
MB20	-	Fig. 4
MB22	2 x gland plates	Fig. 6
MB29	2 x gland plates	Fig. 6

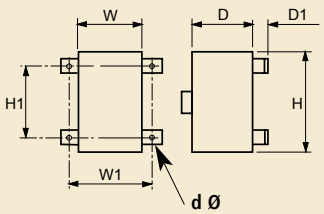


Fig. 4

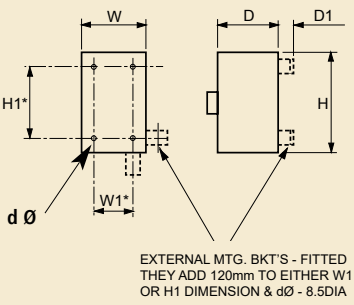


Fig. 6

Main/Emergency-Off Switch + Emergency Stop Pushbutton

25A - 100A 4 & 6 POLE



IP RATING IP66/67 protection

ENCLOSURE insulated, grey (RAL7035)

HANDLE OPTION red/yellow padlockable handle

EARTH TERMINAL included

FEATURES stayput emergency-stop pushbutton, 1 N.C. contact, twist to reset. Switch interlocked with lid to prevent opening in 'ON' position

higher ratings available on request

Ie AC-21A	Order Code No.	Encl.Ref.
4 pole (3 ph+Sw N[1]) + 1 n.o. (early break) + 1 n.c. aux		
25A	KG20 T204/GBA285*KL	KLD
32A	KG32 T204/GBA285*KL	KLD
40A	KG41 T204/GBA285*KL	KLD
63A	KG64 T204/GBA285*KL	KLD
80A	KG80 T204/GBA285*KL	KLD
100A	KG100 T204/GBA285*KL	KLD
6 pole + 1 n.o. (early break) + 1 n.c. aux		
25A	KG20B T206/GBA095*KL	KLD
32A	KG32B T206/GBA095*KL	KLD
40A	KG41B T206/GBA095*KL	KLD
63A	KG64B T206/GBA095*KL	KLD

Main/Emergency-Off Switch + Emergency Stop Pushbutton

25A - 100A 4 & 6 POLE



IP RATING IP66 protection

ENCLOSURE grey powder paint finish (RAL7032) also available in red paint finish (RAL3000)

HANDLE OPTION red/yellow padlockable handle

EARTH TERMINAL included + lid bonding link

FEATURES stayput emergency stop pushbutton, 1 N.C. contact, twist to reset. Switch interlocked with the lid to prevent opening in 'ON' position

higher ratings available on request

Ie AC-21A	Order Code No.	Encl.Ref.
4 pole (3 ph+Sw N[1]) + 1 n.o. (early break) + 1 n.c. aux		
25A	KG20 T204/GBA350* MB3E	MB3E
32A	KG32 T204/GBA350* MB3E	MB3E
40A	KG41 T204/GBA350* MB3E	MB3E
63A	KG64 T204/GBA350* MB3E	MB3E
80A	KG80 T204/GBA350* MB3E	MB3E
100A	KG100 T204/GBA350* MB3E	MB3E
6 pole + 1 n.o. (early break) + 1 n.c. aux		
25A	KG20B T206/GBA155*MB3E	MB3E
32A	KG32B T206/GBA155*MB3E	MB3E
40A	KG41B T206/GBA155*MB3E	MB3E
63A	KG64B T206/GBA155*MB3E	MB3E

Main/Emergency-Off Switch + Emergency Stop Pushbutton

25A - 100A 4 & 6 POLE



IP RATING IP66 protection

ENCLOSURE stainless steel, grade 316L

HANDLE OPTION red/yellow padlockable handle

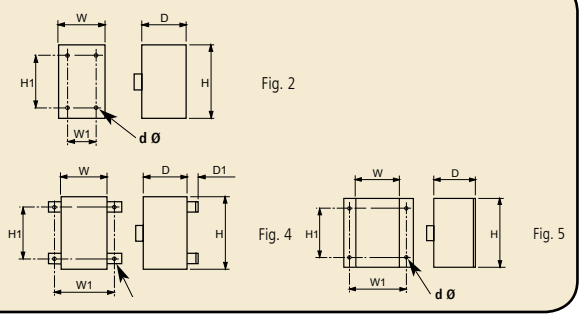
EARTH TERMINAL included + lid bonding link

FEATURES stayput emergency stop pushbutton, 1 N.C. contact, twist to reset. Switch interlocked with the lid to prevent opening in 'ON' position

higher ratings available on request

Ie AC-21A	Order Code No.	Encl.Ref.	Price (£
4 pole (3 ph+Sw N[1]) + 1 n.o. (early break) + 1 n.c. aux			
25A	KG20 T204/GBA440* SB3E	SB3E	
32A	KG32 T204/GBA440* SB3E	SB3E	
40A	KG41 T204/GBA440* SB3E	SB3E	
63A	KG64 T204/GBA440* SB3E	SB3E	
80A	KG80 T204/GBA440* SB3E	SB3E	
100A	KG100 T204/GBA440* SB3E	SB3E	
6 pole + 1 n.o. (early break) + 1 n.c. aux			
25A	KG20B T206/GBA555*SB3E	SB3E	
32A	KG32B T206/GBA555*SB3E	SB3E	
40A	KG41B T206/GBA555*SB3E	SB3E	
63A	KG64B T206/GBA555*SB3E	SB3E	

Encl. Ref.	Encl. Dim. H	W	D	D1	Encl. Dim. H1	W1	d	Cable Entries.	Line Drg.
KLD	250	145	107	-	229	124	6.5	4 x 25/40mm k'outs	Fig. 2
MB3E	254	149	125	8	193	167	6	-	Fig. 4
SB3E	254	149	126.5	-	193	167	6	-	Fig. 5



Mains-Off-Generator with appliance inlet 32A - 125A 2 & 4 POLE

Back to index

NEW



Product shown with right-sided inlet

Also available with inlet on the left side

IP RATING IP66 protection

ENCLOSURE mild steel, grey paint finish (RAL7035)

HANDLE OPTION black & red padlockable handle, padlockable in OFF position only (other options on request)

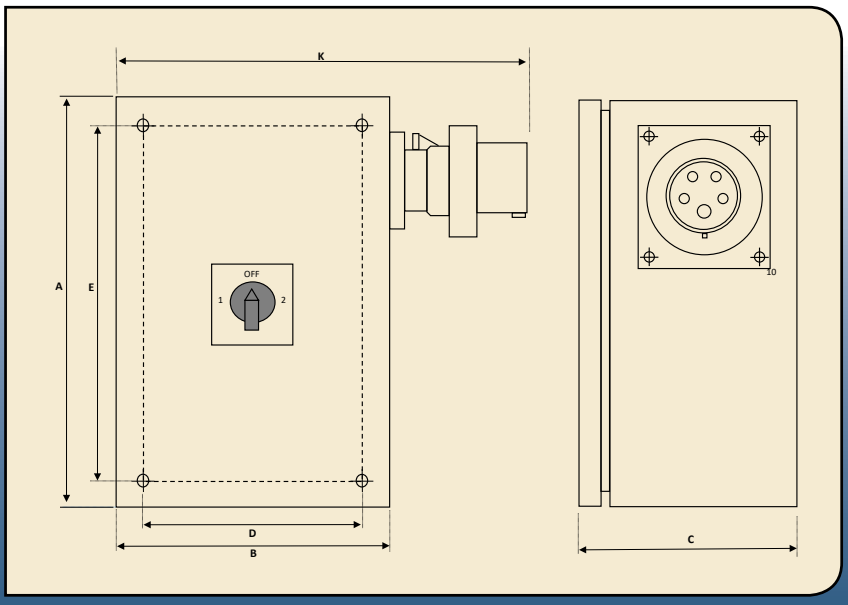
EARTH TERMINAL included

SAFETY FEATURE switch is interlocked with the lid to prevent opening in the 'ON' positions

APPLIANCE INLET Available on either the right or left side of the enclosure. IP67 rated with locking ring. Socket is pre-wired to the switch.

Encl. Ref.	A	B	C	D	E	K
1	300	200	150	160	260	327
2	300	200	150	160	260	355
3	400	300	200	260	360	455
4	400	300	200	260	360	430

Note
2-off electrically isolated early break auxiliary contacts are provided with the 4 pole switches. One of these contacts closes in position 1 and the other contact closes in position 2. Both of the contacts are open in the Off position.



Ie AC-21A	Left side inlet 2 Pole - 3 Pin	Encl. Ref		Left side inlet 4 Pole - 5 Pin + aux	Encl. Ref	
32A	KH32 T902/GBL3P00 EB231	1		KG32B T904/GBL5P20 EB231	1	
63A	KH63 T902/GBL3P00 EB231	2		KG64B T904/GBL5P20 EB342	3	
125A				KG105 T904/GBL5P20 EB342	4	
Ie AC-21A	**Right side inlet 2 Pole - 3 Pin**	**Encl. Ref**		**Right side inlet4 Pole - 5 Pin + aux**	**Encl. Ref**	
32A	KH32 T902/GBR3P00 EB231	1		KG32B T904/GBR5P20 EB231	1	
63A	KH63 T902/GBR3P00 EB231	2		KG64B T904/GBR5P20 EB342	3	
125A				KG105 T904/GBR5P20 EB342	4	

CONTROL STATIONS

Emergency Stop Pushbutton Station - without protective shroud
38mm diameter red mushroom head - twist to reset. 1 N.C. contact. Complies with EN 418/EN 60204-1.







Order Code No.	P SN-GB0001	P N261/GBA005 *SF1A	P N091/GBA023 *SB31	P N091/GBA016 *RB31	P N091/GBA017 *MB31
Encl.Ref.	P1Y	SF1A	SB31	RB31	MB31
	insulated enclosure IP66/67/69K	**flush mounted stainless steel 316L IP40 (IP65 achieveable with sealant) galvanised back box earth stud included**	**surface mounted stainless steel 316L IP66 earth terminal & lid bonding link**	**surface mounted Red RAL3000 mild steel IP66 earth terminal & lid bonding link**	**surface mounted Grey RAL7032 mild steel IP66 earth terminal & lid bonding link**

Emergency Stop Pushbutton Station - without protective shroud
38mm diameter red mushroom head - key operate to reset (1 included) Complies with EN 418/EN 60204-1.







Order Code No.	P SN-GB0003	P N261/GBA007 *SF1A	P N091/GBA024 *SB31	P N091/GBA018 *RB31	P N091/GBA019 *MB31
Encl.Ref.	P1Y	SF1A	SB31	RB31	MB31
	insulated enclosure IP66/67/69K	**flush mounted stainless steel 316L IP40 (IP65 achieveable with sealant) galvanised back box earth stud included**	**surface mounted stainless steel 316L IP66 earth terminal & lid bonding link**	**surface mounted Red RAL3000 mild steel IP66 earth terminal & lid bonding link**	**surface mounted Grey RAL7032 mild steel IP66 earth terminal & lid bonding link**

DIMENSIONS - for all Pushbutton Stations on this page :

Encl. Ref.	Front Plate H	W	D	H1	W1	D	Cable Entries.	Line Drg.
P1Y	80	72	56	66.5	58.5	4.5	1 x 20mm + 2 x20/25mm k'outs	Fig. 1
P2Y	85	85	101	40	65	5.5	3 x 20mm k'outs	Fig. 4
SF1A	100	100	2	78	78	52	8 x 20mm k'outs	Fig. 3
SB31	100	100	60	120	70	6.5	-	Fig. 2
RB31	100	100	60	120	70	6.5	-	Fig. 2
MB31	100	100	60	120	70	6.5	-	Fig. 2

Fig. 1

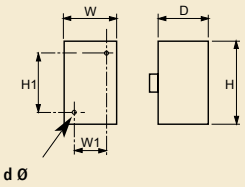


Fig. 2

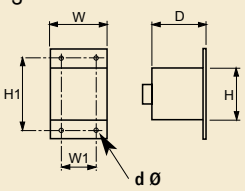


Fig.3

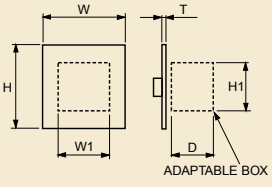
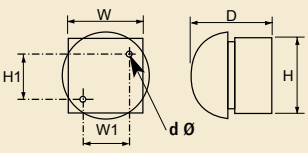


Fig.4



Emergency Stop Pushbutton Station - with protective shroud
38mm diameter red mushroom head - twist to reset. 1 N.C. contact. Complies with EN 418/EN 60204-1.



P SN-GB0053	P N261/GBA010 *SF1A	P N091/GBA025 *SB31	P N091/GBA020 *RB31	P N091/GBA021 *MB31	Order Code No.
P1Y	SF1A	SB31	RB31	MB31	Encl.Ref.
insulated enclosure IP66/67	flush mounted stainless steel 316L IP40 (IP65 achieveable with sealant) galvanised back box earth stud included	surface mounted stainless steel 316L IP65 earth terminal & lid bonding link	surface mounted Red RAL3000 mild steel IP65 earth terminal & lid bonding link	surface mounted Grey RAL7032 mild steel IP65 earth terminal & lid bonding link	

Emergency Stop Pushbutton Station - with protective shroud
38mm diameter red mushroom head - key operate to reset (1 included) Complies with EN 418/EN 60204-1.

Back to index



P SN-GB0054	P N261/GBA011 *SF1A	P N091/GBA026 *SB31	P N091/GBA022 *RB31	P N091/GBA023 *MB31	Order Code No.
P1Y	SF1A	SB31	RB31	MB31	Encl.Ref.
insulated enclosure IP66/67	flush mounted stainless steel 316L IP40 (IP65 achievable with sealant) galvanised back box earth stud included	surface mounted stainless steel 316L IP65 earth terminal & lid bonding link	surface mounted Red RAL3000 mild steel IP65 earth terminal & lid bonding link	surface mounted Grey RAL7032 mild steel IP65 earth terminal & lid bonding link	

FIRE ALARM ISOLATOR - Double Pole 10A. Complies with EN BS5839 Part 1:2013, marked with the symbol for on-load isolation according to BS7671:2008



Providing a secure method of safely isolating the mains power supply to CIE during maintenance periods. The double pole device provides isolation of both the live and neutral supply and can only be operated by authorised maintenance technicians via removable key.

SAFETY FEATURE compliant to BS5839 Part 1:2013 marked with the symbol for on-load isolation according to BS7671:2008

double pole

key removable in both positions

supplied with 2 keys

Ie AC-21A	2 Pole	
10A	CA4 T302/GBA001 RPB1	

CONTROL SWITCHES — insulated enclosure

Rotary Control Switch - Insulated Enclosure



Grey Enclosure IP65

		Order Code No.	Encl. Ref.	
Off-On	1 pole	KN1	PF1A	
Off-On	3 pole	KN3	PF1B	
Changeover, without Off	1 pole	KN2	PF1A	
Changeover, with Off	2 pole	KN10	PF1B	

Key Operated Control Switch - Insulated Enclosure



Grey Enclosure IP40

Notes 1) Key removable in all positions. 2) Key removable in '0' position only.		Order Code No.	Encl. Ref.	
Off-On[1)]	3 pole	CA10 A202/GBA003 *PN	PN1G	
Off-On[1)]	4 pole	CA10 A203/GBA003 *PN	PN1G	
Changeover, with Off[1)]	2 pole	CA10 A211/GBA009 *PN	PN1G	
Changeover, without Off[1)]	2 pole	CA10 A221/GBA003 *PN	PN1G	
Changeover, spring return to Off[2)]	2 pole	CA10 A215/GBA002 *PN	PN1G	
Step, 3 pos'n, without Off[1)]	1 pole	CA10 A230/GBA002 *PN	PN1G	
Step, 4 pos'n, without Off[1)]	1 pole	CA10 A231/GBA004 *PN	PN1G	

LOAD SWITCHES

Emergency-Off Switch - 3 & 4 Pole 25A & 32A



IP RATING IP65 protection
ENCLOSURE grey insulated enclosure
HANDLE OPTION red/yellow padlockable handle
EARTH TERMINAL included
FEATURE suitable for safety isolation in accordance with IEC 60947-3/BS EN 60947-3

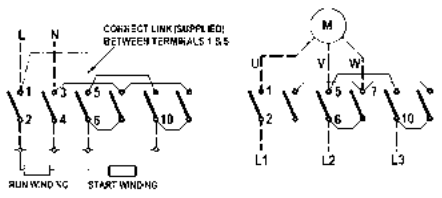
Ie AC-21A	Order Code No.	Encl.Ref.	
3 pole			
25A	KN5	PF1E	
32A	KN7	PF1E	
4 pole (3 ph+Sw N[1)])			
25A	KN6	PF1E	
32A	KN8	PF1E	

Motor Reversing Switch 3 Phase 5.5kW @ 415v & 1 Phase 1.5kW @240v

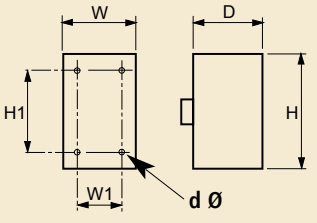


IP RATING IP42 protection
ENCLOSURE grey insulated enclosure
HANDLE OPTION grey handle/silver legend
EARTH TERMINAL included

Order Code No.	Encl.Ref.	
KN4	PN1C	



Encl. Ref.	Encl. Dim. H	W	D	Encl. Dim. H1	W1	d	Cable Entries.
PF1A	72	64	42	36	50	4.4	4 x 20mm ISO
PF1B	72	64	51	36	50	4.4	4 x 20mm ISO
PF1E	92	82	65	52	68	4.4	4 x 20mm ISO
PN1C	72	64	56	36	50	4.4	4 x 20mm ISO
PN1G	72	64	69	36	50	4.4	4 x 20mm ISO



Back to index

Switch Type	Thermal Rating	Insulation Voltage, Ui	Rated operating Current & power Operational current, Ie / Operational Power, 3 ph.								Short Circuit Protection	Terminal Capacity		
			AC-15			AC-21A	AC-3		AC-23A					
	Enclosed rating Ithe		110V	220-240V	380-440V	690V	220-240V	380-440V	230-240V	380-440V	Max. fuse gL/gG char.	Single core/ stranded wire.	Flexible wire, with sleeve.	Terminal bolt for Cu bar/lug.
	A	V	A				kW				A	mm^2	mm^2	mm^2
Switch-diconnectors - selection data in accordance with: IEC 60947, IEC 60204, BS EN 60947, BS EN 60204														
KG10	20	690	-	-	-	20	2.2	3.7	3	5.5	20	2.5	1.5	-
KG20	25	690	-	-	-	25	4	5.5	5.5	7.5	35	6	4	-
KG32	32	690	-	-	-	32	5.5	7.5	5.5	11	35	6	4	-
KG41	40	690	-	-	-	40	7.5	11	7.5	15	50	16	10	-
KG64	63	690	-	-	-	63	11	18.5	11	22	63	16	10	-
KG80	80	690	-	-	-	80	15	22	18.5	30	80	50	35	-
KG100	100	690	-	-	-	100	18.5	30	22	37	100	50	35	-
KG105	125	690	-	-	-	125	22	37	25	45	125	50	35	-
KG125	125	1000[1]	-	-	-	125	22	37	30	45	125	95	70	-
KG160	160	1000[1]	-	-	-	160	30	45	30	55	160	95	70	-
KG210	200	1000[1]	-	-	-	200	37	55	37	75	200	185	120	-
KG250	250	1000[1]	-	-	-	250	37	55	37	90	250	185	120	-
KG315	315	1000[1]	-	-	-	315	45	75	55	110	315	185	120	-
KH16	16	800[1]	-	-	-	16	3	5.5	4.5	7.5	25	6	4	-
KH20	20	800[1]	-	-	-	20	3.5	6.5	5.5	10	32	6	4	-
KH25	25	800[1]	-	-	-	25	4	7.5	7	12	35	6	4	-
KH32	32	800[1]	-	-	-	32	5.5	11	9	16	35	10	6	-
KH40	40	800[1]	-	-	-	40	7.5	15	11	20	50	10	6	-
KH63	63	1000[1]	-	-	-	63	11	22	18.5	30	80	35	25	-
KH80	80	1000[1]	-	-	-	80	15	30	23	40	100	35	25	-
KH85	100	1000[1]	-	-	-	100	3)	3)	3)	3)	100	35	25	-
UK20	20	690	5	5	4	20	3	5.5	3.7	7.5	25	2x2.5	2x2.5	-
UK25	25	690	8	8	5	25	4	7.5	5.5	11	35	2x4	2x2.5	-
UK32	32	690	12	12	6	32	5.5	11	7.5	15	35	2x6	2x4	-
UK250/A	250	1000	-	-	-	250	-	-	75	140	315	150		M8
UK315/A	315	1000	-	-	-	315	-	-	100	160	500	240		M10
UK400/A	400	1000	-	-	-	400	-	-	132	220	500	240		M10
UK630/A	630	1000	-	-	-	630	-	-	200	355	800	400/2x155		M12
UK800/A	800	1000	-	-	-	800	-	-	250	450	800	500/2x240		M12
UK1000/A	1000	1000	-	-	-	1000	-	-	-	560	1250	630/2x400		M12
UK1250/A	1250	1000	-	-	-	1250	-	-	-	710	1250	2x400		M12
C200-4	200	690				200	22	37	37	75	200	95	95	M8
C316 (6 pole) (in RB10, MB10, SB10 encl)	275	1000	-	-	-	275	37	55	75	132	315	150	150	M12
C316 (6 pole) (in RB29, MB29, SB29 encl)	315	1000	-	-	-	315	37	55	75	132	315	185	150	M12
C316 (3 + 4 pole) (in GP27 encl)	315	1000	-	-	-	315	37	55	75	132	315	150	150	M12
Switch & Control Stations - selection data in accordance with: IEC 60947, BS EN 60947.														
CA4	10	440	-	2.5	1.5	10	0.55	2.2	0.75	3	10	2x1.5	2x1.5	-
CA25	32	690	12	12	6	32	5.5	11	7.5	15	35	2x6	2x4	-
C32	50	690	16	16	7	40	7.5	15	11	22	63	2x10	2x6	-
C42	63	690	-	-	-	63	11	18.5	15	30	80	2x16	2x10	-
C80	115	690	-	-	-	100	15	30	30	45	125	35	25	-
C125	150	690	-	-	-	150	22	37	37	75	200	70	50	-
C200-4	200	690	-	-	-	200	22	37	37	75	200	95	95	M8
C315 (In MB10 encl)	275	690	-	-	-	275	37	55	75	132	315	150	150	M12
C315 (In MB29 encl)	315	690	-	-	-	315	37	55	75	132	315	185	150	M12
KN1/KN2/KN3/KN10/CA10	20	690	5	5	4	20	3	5.5	3.7	7.5	25	2x2.5	2x2.5	-
KN4	20	690	-	-	-	-	3[2]	5.5[2]	-	-	25	2x2.5	2x2.5	-
KN5/KN6	25	690	8	8	5	25	4	7.5	5.5	11	35	2x4	2x2.5	-
KN7/KN8	32	690	14	14	6	32	5.5	11	7.5	15	50	2x6	2x4	-
P N/P SN	6	500	6	6	4	-	-	-	-	-	10	2.5	1.5	-

Notes: 1) Only valid for no-load switching (AC-20A) above 690v.
2) 1 phase, 240v, rating = 1.5kW.
3) KH85 is only available as 2 pole changeover switch.
Single phase rating @240v: AC-3 = 10kW, 62A. AC-23A = 11kW, 68A.

DEGREES OF PROTECTION

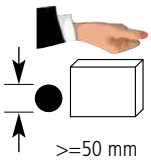
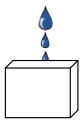
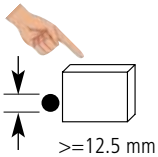
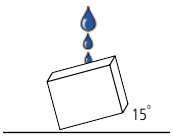
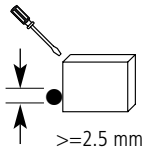
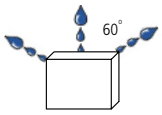
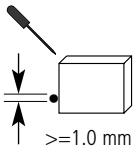
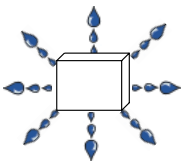
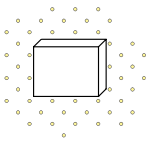
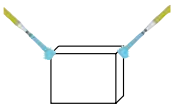
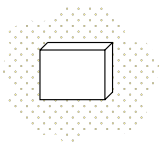
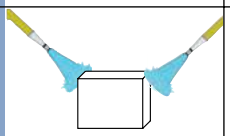
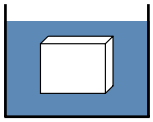
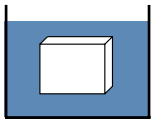
IP Codes

A coding system is defined by BS EN 60529 for the classification of degrees of protection provided by enclosures of electrical equipment against solid objects and water. This coding comprises the letters 'IP' followed by a two digit code as follows:-

IP 6 5

Defines protection against solid objects and access to hazardous parts. — **Defines protection against water.**

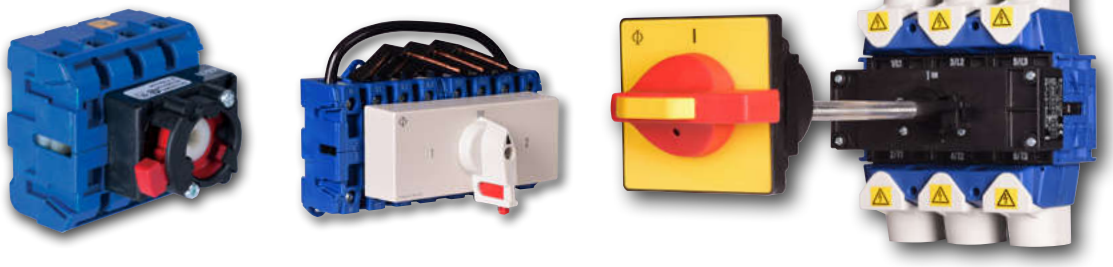
Degrees of protection indicated by a number up to and including '6' implies compliance with the requirements for all lower numbers. For a code with a second digit of 7 or 8, a second code must be stated to specify protection against water jets or spray. eg IP66/IP67.

1st Digit	Protection against solid objects and access to hazardous parts.		2nd Digit	Protection against water	
0		No protection	0		No protection
1		No ingress by solid objects >=50 mm dia nor access to hazardous parts with the back of the hand	1		Vertically falling drops of water shall have no harmful effect.
2		No ingress by solid objects >=12.5 mm dia nor access to hazardous parts with a finger.	2		Vertically falling drops of water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from vertical.
3		No ingress by solid objects >=2.5 mm dia nor access to hazardous parts with a tool.	3		Water sprayed at up to 60° from the vertical shall have no harmful effect.
4		No ingress by solid objects >=1.0 mm dia nor access to hazardous parts with a wire.	4		Water splashed from any direction shall have no harmful effect.
5		Dust protected. Ingress of dust is not completely prevented, but there should be no harmful deposits. No access to hazardous parts with a wire.	5		Jets of water projected from any direction shall have no harmful effect.
6		Dust-tight. No ingress of dust. No access to hazardous parts with a wire.	6		Strong jets of water projected from any direction shall have no harmful effect.
			7		Temporary immersion in water shall not result in ingress of harmful quantities of water.
			8		Continuous immersion in water shall not result in ingress of harmful quantities of water.

Reference should be made to BS EN 60529:1992 for full details concerning test and acceptance criteria.

Specification for IP69K - The IP69K rating is for applications where high pressure and high temperature washdown is used to sanitize equipment, prescribed by Germany standard DIN 40050 PART9. Products rated to IP69K must be able to withstand high-pressure and steam cleaning. • The test specifies a spray nozzle that is fed with 80 °C water at 80–100 bar (~1160-1450) and a flow rate of 14–16 L/min. • The nozzle is held 10–15 cm from the tested device at angles of 0°, 30°, 60° and 90° for 30 seconds each. • The test device sits on a turntable that rotates once every 12 seconds.

Switch-disconnectors
open switches (pages 32 - 47)



This section contains the most popular Kraus & Naimer Blue Line switch-disconnectors including our range of main/emergency-off switches, main switches and changeover switches.

Contents Page

Off - On Switch-disconnectors

Main/Emergency-Off Switch

Front Panel Mounting Single Hole Fixing Handle 32
Front Panel Mounting 4 Hole Fixing Handle 33
Base Mounting Single Hole Fixing Handle 34
Base Mounting 4 Hole Fixing Handle 35

Main/Emergency-Off Switch with Defeatable Door Interlock

Base Mounting Single Hole Fixing Handle 36
Base Mounting 4 Hole Fixing Handle 37

Changeover Switch-disconnectors

Changeover Switch with Centre Off

Base Mounting 4 Hole Fixing Handle 2, 3 & 4 pole16A to 160A 38
Base Mounting, suitable for 45mm distribution board cutout 38

Optional Extras

Side Mounted Earth Terminal 39
Side Mounted Neutral Terminal 39
Side Mounted Auxiliary Contact 39
Mounting Tool 39
Terminal Covers 39

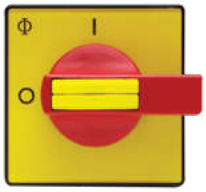
Technical Data, dimensions & general information

Technical Data 40
Connection Diagrams 41
Dimensions 42 to 47

OFF-ON ~ SWITCH DISCONNECTORS

Main/Emergency-Off Switch - 2, 3 & 4 Pole
Front Panel Mounting Single Hole Fixing Handle 20A to 32A





IP RATING IP66/67/69K front protection

HANDLE OPTION Red & yellow padlockable handle or black & silver option available

FRONT PLATE SIZE 48mm x 48mm

FEATURES fingerproof terminals

variations on auxiliaries available plus add-on auxiliary blocks for KG20 & KG32 (see page 39)

Without Auxiliaries

Ie AC-21A	2 Pole		3 Pole		3 Pole + Solid Neutral		4 Pole (3ph + Sw N²)	
20A	KG10A T202/04 FT2		KG10A T203/04 FT2				KG10A T204/04 FT2	
25A			KG20A T203/04 FT2		KG20A T207/04 FT2		KG20A T204/04 FT2	
32A			KG32A T203/04 FT2		KG32A T207/04 FT2		KG32A T204/04 FT2	

With Auxiliaries [1]

Ie AC-21A			3 Pole + Aux		3 Pole + Solid Neutral + Aux		4 Pole (3ph + Sw N²) + Aux	
20A			KG10A T203/GBA319 FT2				KG10A T204/GBA330 FT2	
25A			KG20A T203/GBA320 FT2		KG20A T207/GBA325 FT2		KG20A T204/GBA33O FT2	
32A			KG32A T203/GBA320 FT2		KG32A T207/GBA325 FT2		KG32A T204/GBA330 FT2	

If black/silver handle is required then change the T reference within the part number from 2 to 1 e.g

Part no KG10A T203/04 FT2 becomes KG10A T103/04 FT2 pricing remains the same.

Notes

1) The following auxiliary contacts are provided:-

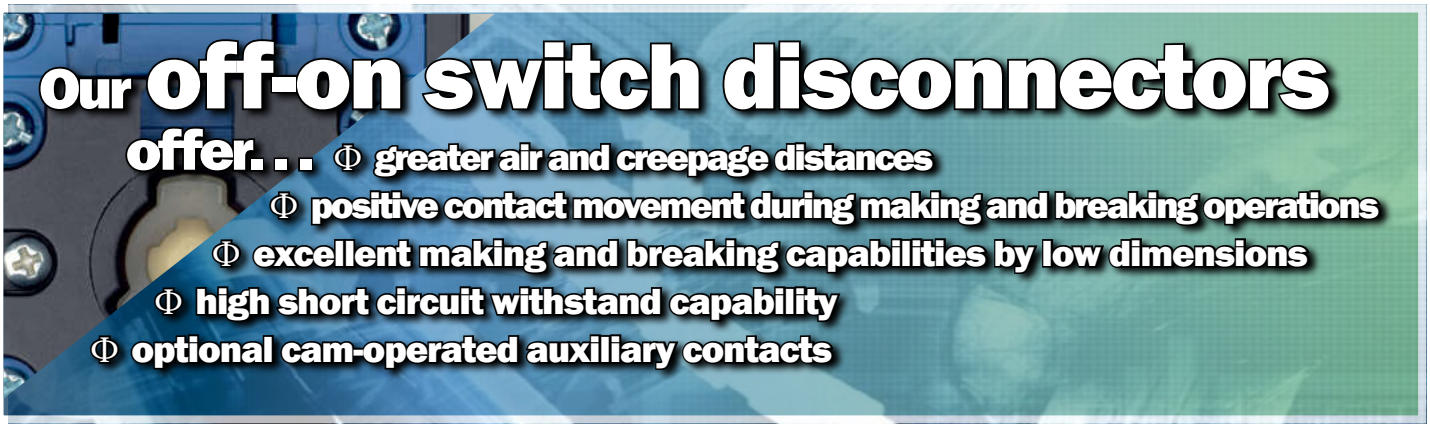
KG10A	1 n.o. (early break) + 1 n.c.
KG20A, KG32A	2 n.o. (early break)

2) Switched neutral pole is early make/late break

Technical data - Page 40

Connection diagram - Page 41

Dimensions - KG - Page 42



Main/Emergency-Off Switch - 3 & 4 Pole
Front Panel Mounting Four Hole Fixing Handle 20A to 315A

IP RATING IP66/67 front protection

HANDLE OPTION Red & yellow padlockable handle

KG10A to KG160 

KG210 to KG315 

black & silver option available
(black & grey depending on type)

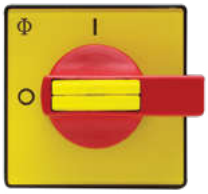
FRONT PLATE SIZE KG10A to KG32A: 48mm x 48mm
KG41B to KG105: 64mm x 64mm
KG125 to KG315: 88mm x 88mm

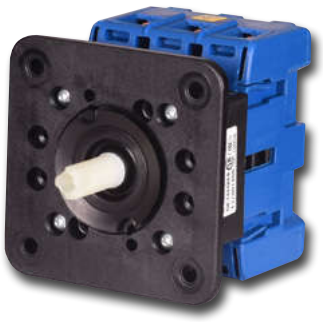
FEATURES fingerproof terminals (KG10A to KG64B)

incoming terminal cover - KG80 to KG315
(KG210 to KG315 incl.outgoing cover)

variations on auxiliaries available plus add-on auxiliary blocks (see page 39)







<Back to index>

Without Auxiliaries

Ie AC-21A	3 Pole		4 Pole (3ph + Sw N[3])	
20A	KG10A T203/01 E		KG10A T204/01 E	
25A	KG20A T203/01 E		KG20A T204/01 E	
32A	KG32A T203/01 E		KG32A T204/01 E	
40A	KG41B T203/GBA306 E		KG41B T204/01 E	
63A	KG64B T203/GBA306 E		KG64B T204/01 E	
80A	KG80 T203/GBA306 E		KG80 T204/01 E	
100A	KG100 T203/GBA306 E		KG100 T204/01 E	
125A	KG105 T203/GBA306 E		KG105 T204/01 E	
125A	KG125[2] T203/01 E		KG125[2] T204/01 E	
160A	KG160 T203/01 E		KG160 T204/01 E	
200A	KG210 T203/05 E		KG210 T204/05 E	
250A	KG250 T203/05 E		KG250 T204/05 E	
315A	KG315 T203/05 E		KG315 T204/05 E	

If black/silver handle is required then change the T reference within the part number from 2 to 1 e.g

Part no KG10A T203/04 FT2
becomes KG10A T103/04 FT2

pricing remains the same.

With Auxiliaries[1]

Ie AC-21A	3 Pole + Aux		4 Pole (3ph + Sw N[3]) + Aux	
20A	KG10A T203/GBA315 E		KG10A T204/GBA415 E	
25A	KG20A T203/GBA315 E		KG20A T204/GBA415 E	
32A	KG32A T203/GBA315 E		KG32A T204/GBA415 E	
40A	KG41B T203/GBA353 E		KG41B T204/GBA426 E	
63A	KG64B T203/GBA353 E		KG64B T204/GBA426 E	
80A	KG80 T203/GBA353 E		KG80 T204/GBA426 E	
100A	KG100 T203/GBA353 E		KG100 T204/GBA426 E	
125A	KG105 T203/GBA353 E		KG105 T204/GBA426 E	
125A	KG125[2] T203/GBA368 E		KG125[2] T204/GBA045 E	
160A	KG160 T203/GBA025 E		KG160 T204/GBA045 E	
200A	KG210 T203/GBA025 E		KG210 T204/GBA035 E	
250A	KG250 T203/GBA025 E		KG250 T204/GBA035 E	
315A	KG315 T203/GBA025 E		KG315 T204/GBA035 E	

Notes
1) The following auxiliary contacts are provided:-

KG10A 1 n.o. (early break) + 1 n.c.
KG20A to KG105 2 n.o. (early break)
KG125 - KG315 2 n.o. (early break) + 2 n.c

2) Suitable for applications requiring larger cable termination

3) Switched neutral pole is early make/late break

Technical data - Page 40

Connection diagram - Page 41

Dimensions - KG - Page 42

OFF-ON ~ SWITCH DISCONNECTORS

Main/Emergency-Off Switch - 3 ,4 & 6 Pole
Base Mounting Single Hole Fixing Handle 20A to 125A



IP RATING IP66 front protection

HANDLE OPTION Red & yellow padlockable handle or black & silver option available (black & grey depending on type)

FRONT PLATE SIZE KG10A to KG32A: 48mm x 48mm
KG41B to KG105: 64mm x 64mm

FEATURES door interlock

adjustable metal operating shaft 200mm long, switches with alternative shaft lengths available on request

fingerproof terminals -KG10A to KG64B

incoming terminal cover -KG80 to KG105

variations on auxiliaries available plus add-on auxiliary blocks (see page 39)

suitable for DIN rail mounting

Without Auxiliaries

Ie AC-21A	3 Pole		3 Pole + Solid Neutral		4 Pole (3ph + Sw N[2])		6 Pole	
20A	KG10A T203/GBA352 VE				KG10A T204/GBA237 VE			
25A	KG20A T203/GBA352 VE		KG20A T207/GBA220 VE		KG20A T204/GBA237 VE		KG20B T206/GBA230 VE	
32A	KG32A T203/GBA352 VE		KG32A T207/GBA220 VE		KG32A T204/GBA237 VE		KG32B T206/GBA230 VE	
40A	KG41B T203/GBA452 VE		KG41B T207/GBA240 VE		KG41B T204/GBA447 VE		KG41B T206/GBA410 VE	
63A	KG64B T203/GBA452 VE		KG64B T207/GBA240 VE		KG64B T204/GBA447 VE		KG64B T206/GBA410 VE	
80A	KG80 T203/GBA452 VE		KG80 T207/GBA240 VE		KG80 T204/GBA447 VE		KG80 T206/GBA410 VE	
100A	KG100 T203/GBA452 VE		KG100 T207/GBA240 VE		KG100 T204/GBA447 VE		KG100 T206/GBA410 VE	
125A	KG105 T203/GBA452 VE		KG105 T207/GBA240 VE		KG105 T204/GBA447 VE		KG105 T206/GBA410 VE	

With Auxiliaries[1]

Ie AC-21A	3 Pole		3 Pole + Solid Neutral		4 Pole (3ph + Sw N[2])		6 Pole	
20A	KG10A T203/GBA372 VE				KG10A T204/GBA247 VE			
25A	KG20A T203/GBA372 VE		KG20A T207/GBA225 VE		KG20A T204/GBA247 VE		KG20B T206/GBA236 VE	
32A	KG32A T203/GBA372 VE		KG32A T207/GBA225 VE		KG32A T204/GBA247 VE		KG32B T206/GBA228 VE	
40A	KG41B T203/GBA462 VE		KG41B T207/GBA245 VE		KG41B T204/GBA457 VE		KG41B T206/GBA415 VE	
63A	KG64B T203/GBA462 VE		KG64B T207/GBA245 VE		KG64B T204/GBA457 VE		KG64B T206/GBA415 VE	
80A	KG80 T203/GBA462 VE		KG80 T207/GBA245 VE		KG80 T204/GBA457 VE		KG80 T206/GBA415 VE	
100A	KG100 T203/GBA462 VE		KG100 T207/GBA245 VE		KG100 T204/GBA457 VE		KG100 T206/GBA415 VE	
125A	KG105 T203/GBA462 VE		KG105 T207/GBA245 VE		KG105 T204/GBA457 VE		KG105 T206/GBA415 VE	

If black/silver handle is required (pricing remains the same) simply change the T reference within the part number from 2 to 1
e.g. Part no KG10A T207/04 FT2 becomes KG10A T107/04 FT2

Notes

1) The following auxiliary contacts are provided:-
KG10A 1 n.o. (early break) + 1 n.c.
KG20A to KG105 2 n.o. (early break)

2) Switched neutral pole is early make/ late break

Technical data - Page 40

Connection diagram - Page 41

Dimensions - KG - Page 43-44

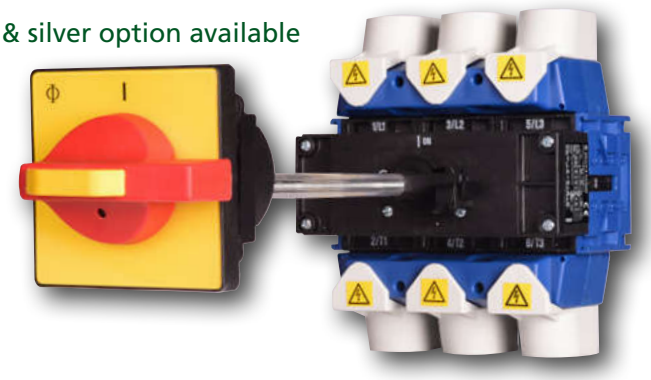
Main/Emergency-Off Switch - 3 ,4 & 6 Pole
Base Mounting Four Hole Fixing Handle 20A to 315A

IP RATING IP66/67 front protection

HANDLE OPTION red & yellow padlockable handle, black & silver option available (black & grey depending on type)

KG10A to KG160 

KG210 to KG315 



FRONT PLATE SIZE
KG10A to KG32A: 48mm x 48mm
KG20B to KG105: 64mm x 64mm
KG125 to KG315: 88mm x 88mm

FEATURES door interlock

adjustable metal operating shaft 200mm long (KG125 to KG315 300mm long), switches with alternative shaft lengths available on request

fingerproof terminals (KG10A to KG64B)

incoming terminal cover - KG80 to KG315 (KG210 to KG315 incl.outgoing cover)

variations on auxiliaries available plus add-on auxiliary blocks (see page 39)

suitable for DIN rail mounting - up to KG105

<Back to index>

Without Auxiliaries

Ie AC-21A	3 Pole		3 Pole + Solid Neutral		4 Pole (3ph + Sw N[3])		6 Pole	
20A	KG10A T203/GBA430 VE				KG10A T204/GBA450 VE			
25A	KG20A T203/GBA430 VE		KG20A T207/GBA140 VE		KG20A T204/GBA450 VE		KG20B T206/GBA221 VE	
32A	KG32A T203/GBA430 VE		KG32A T207/GBA140 VE		KG32A T204/GBA450 VE		KG32B T206/GBA221 VE	
40A	KG41B T203/GBA430 VE		KG41B T207/GBA140 VE		KG41B T204/GBA450 VE		KG41B T206/GBA221 VE	
63A	KG64B T203/GBA430 VE		KG64B T207/GBA140 VE		KG64B T204/GBA450 VE		KG64B T206/GBA221 VE	
80A	KG80 T203/GBA430 VE		KG80 T207/GBA140 VE		KG80 T204/GBA450 VE		KG80 T206/GBA221 VE	
100A	KG100 T203/GBA430 VE		KG100 T207/GBA140 VE		KG100 T204/GBA450 VE		KG100 T206/GBA221 VE	
125A	KG105 T203/GBA430 VE		KG105 T207/GBA140 VE		KG105 T204/GBA450 VE		KG105 T206/GBA221 VE	
125A	KG125[2] T203/GBA050 VE		KG125[2] T207/GBA151 VE		KG125[2] T204/GBA100 VE		KG125[2] T206/GBA061 VE	
160A	KG160 T203/GBA050 VE		KG160 T207/GBA151 VE		KG160 T204/GBA100 VE		KG160 T206/GBA061 VE	
200A	KG210 T203/GBA015 VE		KG210 T207/GBA156 VE		KG210 T204/GBA020 VE			
250A	KG250 T203/GBA015 VE		KG250 T207/GBA156 VE		KG250 T204/GBA020 VE			
315A	KG315 T203/GBA015 VE		KG315 T207/GBA157 VE		KG315 T204/GBA020 VE			

With Auxiliaries[1]

Ie AC-21A	3 Pole		3 Pole + Solid Neutral		4 Pole (3ph + Sw N[3])		6 Pole	
20A	KG10A T203/GBA435 VE				KG10A T204/GBA455 VE			
25A	KG20A T203/GBA435 VE		KG20A T207/GBA145 VE		KG20A T204/GBA455 VE		KG20B T206/GBA225 VE	
32A	KG32A T203/GBA435 VE		KG32A T207/GBA145 VE		KG32A T204/GBA455 VE		KG32B T206/GBA225 VE	
40A	KG41B T203/GBA435 VE		KG41B T207/GBA145 VE		KG41B T204/GBA455 VE		KG41B T206/GBA225 VE	
63A	KG64B T203/GBA435 VE		KG64B T207/GBA145 VE		KG64B T204/GBA455 VE		KG64B T206/GBA225 VE	
80A	KG80 T203/GBA435 VE		KG80 T207/GBA145 VE		KG80 T204/GBA455 VE		KG80 T206/GBA225 VE	
100A	KG100 T203/GBA435 VE		KG100 T207/GBA145 VE		KG100 T204/GBA455 VE		KG100 T206/GBA225 VE	
125A	KG105 T203/GBA435 VE		KG105 T207/GBA145 VE		KG105 T204/GBA455 VE		KG105 T206/GBA225 VE	
125A	KG125[2] T203/GBA055 VE		KG125[2] T207/GBA150 VE		KG125[2] T204/GBA105 VE		KG125[2] T206/GBA070 VE	
160A	KG160 T203/GBA055 VE		KG160 T207/GBA150 VE		KG160 T204/GBA105 VE		KG160 T206/GBA070 VE	
200A	KG210 T203/GBA030 VE		KG210 T207/GBA155 VE		KG210 T204/GBA040 VE			
250A	KG250 T203/GBA030 VE		KG250 T207/GBA155 VE		KG250 T204/GBA040 VE			
315A	KG315 T203/GBA030 VE		KG315 T207/GBA155 VE		KG315 T204/GBA040 VE			

Notes

1) The following auxiliary contacts are provided:-
KG10A 1 n.o. (early break) + 1 n.c.
KG20A to KG105 2 n.o. (early break)
KG125 to KG315 2 n.o. (early break) + 2 n.c

2) Suitable for applications requiring larger cable termination than KG105

3) Switched neutral pole is early make/ late break

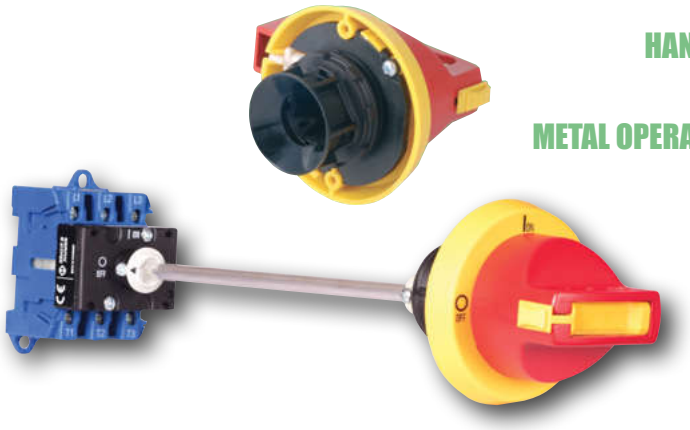
Technical data - Page 40

Connection diagram - Page 41

Dimensions - KG - Page 43-44

OFF-ON ~ SWITCH DISCONNECTORS

Main/Emergency-Off Switch With Defeatable Door Interlock- 3 & 4 Pole
Base Mounting Single Hole Fixing Handle 25A - 160A



IP RATING IP66/67 front protection

HANDLE OPTION red & yellow padlockable handle or black & silver option available

METAL OPERATING SHAFT KG20B to KG105: 200mm long
KG125 to KG160: 300mm long

FEATURES

- alternative shaft lengths available on request
- fingerproof terminals -KG20B to KG4B
- incoming terminal cover -KG80 to KG160
- suitable for DIN rail mounting up to KG105
- variations on auxiliaries available plus add-on auxiliary blocks (see page 39)

Without Auxiliaries

Ie AC-21A	3 Pole		4 Pole (3ph + Sw N[2])	
25A	KG20B T203/GBA340 VE		KG20B T204/GBA350 VE	
32A	KG32B T203/GBA340 VE		KG32B T204/GBA350 VE	
40A	KG41B T203/GBA370 VE		KG41B T204/GBA380 VE	
63A	KG64B T203/GBA370 VE		KG64B T204/GBA380 VE	
80A	KG80 T203/GBA370 VE		KG80 T204/GBA380 VE	
100A	KG100 T203/GBA370 VE		KG100 T204/GBA380 VE	
125A	KG105 T203/GBA370 VE		KG105 T204/GBA380 VE	
125A[3]	KG125 T203/GBA180 VE		KG125 T204/GBA190 VE	
160A	KG160 T203/GBA180 VE		KG160 T204/GBA190 VE	

If black/silver handle is required (pricing remains the same) simply change the T reference within the part number from 2 to 1
e.g Part no KG10A T207/04 FT2 becomes KG10A T107/04 FT2

With Auxiliaries[1]

Ie AC-21A	3 Pole		4 Pole (3ph + Sw N[2])	
25A	KG20B T203/GBA345 VE		KG20B T204/GBA355 VE	
32A	KG32B T203/GBA345 VE		KG32B T204/GBA355 VE	
40A	KG41B T203/GBA375 VE		KG41B T204/GBA385 VE	
63A	KG64B T203/GBA375 VE		KG64B T204/GBA385 VE	
80A	KG80 T203/GBA375 VE		KG80 T204/GBA385 VE	
100A	KG100 T203/GBA375 VE		KG100 T204/GBA385 VE	
125A	KG105 T203/GBA375 VE		KG105 T204/GBA385 VE	
125A[3]	KG125 T203/GBA185 VE		KG125 T204/GBA195 VE	
160A	KG160 T203/GBA185 VE		KG160 T204/GBA195 VE	

When required for maintenance purposes, qualified personnel can defeat the door interlock and enable the panel foor to be opened whilst the switch is in the 'ON' position.

Door clutch will accept 3mm misalignment between switch shaft and door mounted handle.

In normal operation the switch handle is padlockable in the OFF position only and interlocked with the shaft in the ON position to prevent opening of the panel door. Shaft and handle are also interlocked in the OFF position if a padlock is fitted to the handle with the panel door closed.

Notes

1) The following auxiliary contacts are provided:-

KG10A	1 n.o. (early break) + 1 n.c.
KG20A to KG105	2 n.o. (early break)

2) Switched neutral pole is early make/late break

3) Suitable for applications requiring larger cable terminations than KG105

Technical data - Page 40
Connection diagram - Page 41
Dimensions - KG - Page 43

Base Mounting - Defeatable Door Interlock

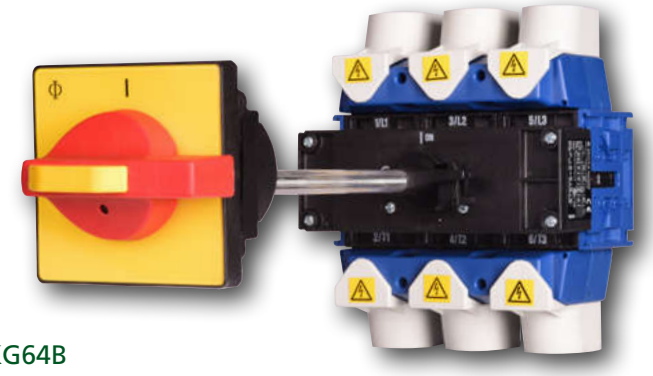
Main/Emergency-Off Switch With Defeatable Door Interlock- 3 , 4 & 6 Pole
Base Mounting Four Hole Fixing Handle 40A - 315A

<Back to index>

IP RATING IP66 front protection

HANDLE OPTION red & yellow padlockable handle or black & silver option available

METAL OPERATING SHAFT KG41B to KG105: 200mm long
KG125 to KG315: 300mm long



FEATURES alternative shaft lengths available on request

fingerproof terminals -KG41B to KG64B

incoming terminal cover -KG80 to KG315 (KG210 to KG315 also incl. outgoing cover)

suitable for DIN rail mounting up to KG105

variations on auxiliaries available plus add-on auxiliary blocks (see page 39)

Without Auxiliaries

Ie AC-21A	3 Pole		4 Pole (3ph + Sw N[2])		6 Pole	
40A	KG41B T203/GBA330 VE		KG41B T204/GBA060 VE		KG41B T206/GBA121 VE	
63A	KG64B T203/GBA330 VE		KG64B T204/GBA060 VE		KG64B T206/GBA121 VE	
80A	KG80 T203/GBA330 VE		KG80 T204/GBA060 VE		KG80 T206/GBA121 VE	
100A	KG100 T203/GBA330 VE		KG100 T204/GBA060 VE		KG100 T206/GBA121 VE	
125A	KG105 T203/GBA330 VE		KG105 T204/GBA060 VE		KG105 T206/GBA121 VE	
125A[3]	KG125 T203/GBA080 VE		KG125 T204/GBA090 VE		KG125 T206/GBA104 VE	
160A	KG160 T203/GBA080 VE		KG160 T204/GBA090 VE		KG160 T206/GBA104 VE	
200A	KG210 T203/GBA080 VE		KG210 T204/GBA090 VE			
250A	KG250 T203/GBA080 VE		KG250 T204/GBA090 VE			
315A	KG315 T203/GBA080 VE		KG315 T204/GBA090 VE			

If black/silver handle is required (pricing remains the same) simply change the T reference within the part number from 2 to 1
e.g Part no KG10A T207/04 FT2 becomes KG10A T107/04 FT2

With Auxiliaries[1]

Ie AC-21A	3 Pole		4 Pole (3ph + Sw N[1])		6 Pole	
40A	KG41B T203/GBA335 VE		KG41B T204/GBA065 VE		KG41B T206/GBA125 VE	
63A	KG64B T203/GBA335 VE		KG64B T204/GBA065 VE		KG64B T206/GBA125 VE	
80A	KG80 T203/GBA335 VE		KG80 T204/GBA065 VE		KG80 T206/GBA125 VE	
100A	KG100 T203/GBA335 VE		KG100 T204/GBA065 VE		KG100 T206/GBA125 VE	
125A	KG105 T203/GBA335 VE		KG105 T204/GBA065 VE		KG105 T206/GBA125 VE	
125A[3]	KG125 T203/GBA085 VE		KG125 T204/GBA095 VE		KG125 T206/GBA105 VE	
160A	KG160 T203/GBA085 VE		KG160 T204/GBA095 VE		KG160 T206/GBA105 VE	
200A	KG210 T203/GBA085 VE		KG210 T204/GBA095 VE			
250A	KG250 T203/GBA085 VE		KG250 T204/GBA095 VE			
315A	KG315 T203/GBA085 VE		KG315 T204/GBA095 VE			

When required for maintenance purposes, qualified personnel can defeat the door interlock and enable the panel foor to be opened whilst the switch is in the 'ON' position.

Door clutch will accept 3mm misalignment between switch shaft and door mounted handle.

In normal operation the switch handle is padlockable in the OFF position only and interlocked with the shaft in the ON position to prevent opening of the panel door. Shaft and handle are also interlocked in the OFF position if a padlock is fitted to the handle with the panel door closed.

Notes

1) The following auxiliary contacts are provided:-

KG10A	1 n.o. (early break) + 1 n.c.
KG20A to KG105	2 n.o. (early break)
KG125 to KG 315	2 n.o. (early break) + 2 n.c.

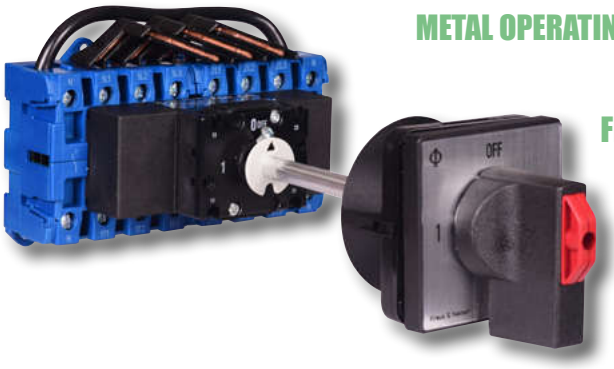
Technical data - Page 40
Connection diagram - Page 41
Dimensions - KG - Page 43

2) Switched neutral pole is early make/late break

3) Suitable for applications requiring larger cable terminations than KG105

CHANGEOVER ~ SWITCH DISCONNECTORS

Changeover Switch, Centre Off - 2, 3 & 4 pole
Base Mounting 4 Hole Fixing Handle



IP RATING IP66/67 front protection

HANDLE OPTION black/silver padlockable handle

FRONT PLATE SIZE KH16 to KH85: 64mm x 64mm
KG20B to KG64B: 64mm x 64mm
KG80 to KG160 88mm x 88mm

METAL OPERATING SHAFT
– 120mm long KH16 to KH25, KG20B & KG32B
– 130mm long KH32 to KH85, KG41B to KG105
– 190mm long KG125 & KG160

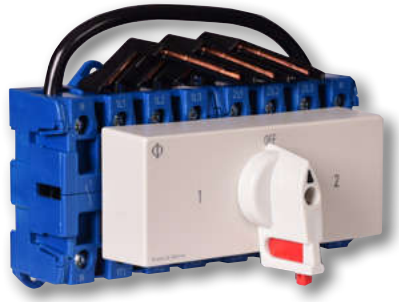
FEATURES
door interlock
alternative shaft lengths available
fingerproof terminals -KH16 to KH40
-KG20B to KG64B
incoming terminal cover -KG80 to KG105
suitable for DIN rail mounting up to KG105 and all KH switches

Ie AC-21A	2 Pole		3 Pole + aux[1)]		4 Pole (3ph + Sw N[2)]) + aux[1)]	
16A	KH16 T902/GBA005 VE					
20A	KH20 T902/GBA005 VE					
25A	KH25 T902/GBA005 VE		KG20B T903/GBA005 VE		KG20B T904/GBA006 VE	
32A	KH32 T902/GBA005 VE		KG32B T903/GBA005 VE		KG32B T904/GBA006 VE	
40A	KH40 T902/GBA005 VE		KG41B T903/GBA005 VE		KG41B T904/GBA006 VE	
63A	KH63 T902/GBA005 VE		KG64B T903/GBA005 VE		KG64B T904/GBA006 VE	
80A	KH80 T902/GBA005 VE		KG80 T903/GBA005 VE		KG80 T904/GBA006 VE	
100A	KH85 T902/GBA005 VE		KG100 T903/GBA005 VE		KG100 T904/GBA006 VE	
125A			KG105 T903/GBA005 VE		KG105 T904/GBA006 VE	
125A[3]			KG125[3]T903/GBA010 VE		KG125[3] T904/GBA020 VE	
160A			KG160 T903/GBA010 VE		KG160 T904/GBA020 VE	

Technical data - Page 40
Connection diagram - Page 41
Dimensions – KG - Page 45
– KH - page 47

Notes
1) 2-off volt-free, early break, auxiliary contacts are provided. One of these contacts closes in position 1 and the other contact closes in position 2. Both of the contacts are open in the Off position.
2) Switched neutral pole is early make/late break
3) Suitable for applications requiring larger cable terminations than KG105

Changeover Switch, Centre Off
2 & 4 pole - Base Mounting



HANDLE OPTION grey, padlockable in OFF position

FRONT PLATE grey with "1 - OFF - 2" Legend

FEATURES escutcheon suitable for 45mm cut out
fingerproof terminals - KH16 to KH40
- KG41B & KG64B
suitable for DIN rail mounting

Ie AC-21A	2 Pole		4 Pole (3ph + Sw N[1)])	
16A	KH16 T902/GBA011 VE2			
20A	KH20 T902/GBA011 VE2			
25A	KH25 T902/GBA011 VE2			
32A	KH32 T902/GBA011 VE2			
40A	KH40 T902/GBA011 VE2		KG41B T904/GBA035 VE2	
63A	KH63 T902/GBA011 VE2		KG64B T904/GBA035 VE2	
80A	KH80 T902/GBA011 VE2		KG80 T904/GBA035 VE2	
100A	KH85 T902/GBA011 VE2		KG100 T904/GBA035 VE2	
125A			KG105 T904/GBA035 VE2	

Notes
1) Switched neutral pole is early make/late break.

Technical data - Page 40
Connection diagram - Page 41
Dimensions – KG - Page 46
– KH - page 47

Side Mounted Earth Terminal



Switch Type	Order Code No.	
KG20A, KG32A, KG20B, KG32B	K0 H052/A	
KG41B, KG64B	K1 H052/B	
KG80 - KG105	K2 H052/C	

Side Mounted Neutral Terminal (Fully Rated)



Switch Type	Order Code No.	
KG20A, KG32A, KG20B, KG32B	K0 H053/A	
KG41B, KG64B	K1 H053/B	
KG80 - KG105	K2 H053/C	

Side Mounted Auxiliary Contacts

<Back to index>



KG switches are also available with a variety of factory fitted auxiliary contacts.
Please enquire for details.

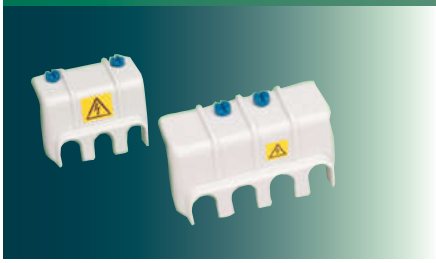
Switch Type	Contact Arrangements	Contact Rating AC-21A	Contact Rating AC-15 @ 110-240V	Order Code No.	
Panel Mounting E & FT					
KG20A, KG32A	1 n.o. + 1 n.c.	10A	2.5A	K0 H010/A11-E	
KG41B, KG64B	1 n.o. + 1 n.c.	16A	6A	K1 H010/A11-E	
KG80 - KG105	1 n.o. + 1 n.c.	16A	6A	K2 H010/A11-E	
KG125, KG160	2 n.o. + 1 n.c.	16A	6A	K3A H010/A21-E	
KG210 - KG315	2 n.o. + 1 n.c.	16A	6A	K3 H010/A21-E	
Base Mounting VE					
KG20A, KG20B, KG32A, KG32B	1 n.o. + 1 n.c.	10A	2.5A	K0 H010/A11-VE	
KG41B, KG64B	1 n.o. + 1 n.c.	16A	6A	K1 H010/A11-VE	
KG80 - KG105	1 n.o. + 1 n.c.	16A	6A	K2 H010/A11-VE	
KG125 - KG160	2 n.o. + 1 n.c.	16A	6A	K3A H010/A21-VE	
KG210 - KG315	2 n.o. + 1 n.c.	16A	6A	K3 H010/A21-VE	

Mounting Tool



Switch Type	Code Number	
For single hole mounting operators	S00 T170 09	

Terminal Covers



Switch Type	3 main terminals		4 main terminals	
	Order Code No.		Order Code No.	
KG10A	S0 M160/A12 K2		S0 M160/A12 K2	
KG20A&B/KG32A&B	K0 M160/3		K0 M160/4	
KG41B/KG64B	K1 M160/3		K1 M160/4	
KG80/KG105	K2 M160/3		K2 M160/4	
KG125/KG160	K3 M160/32		K3 M160/42	
KG210/KG315	K3 M160/30		K3 M160/40	
KH32/KH40			K1 M160/45 VE[1)]	
KH63/KH85			K1 M160/44 VE[1)]	

Notes
1) Suffix VE is applicable for base mounting switches only

TECHNICAL DATA

Switch Disconnectors

Switch Type	Thermal Rating	Insulation Voltage, Ui	Rated Operating Current & Power										Short Circuit Protection	Terminal Capacity		
			Operational Current, Ie				Operational Power									
	Ith		AC-15			AC-21A	AC-3			AC-23A						
	Open rating		110v	220-240v	380-440v	690v	220-240v, 1 ph.	220-240v 3, ph.	380-440v	220-240v, 1 ph.	220-240v 3 ph.	380-440v	Max. fuse gL/gG char.	Single core/ stranded wire.	Flexible wire, with sleeve.	Terminal bolt for Cu bar/lug.
	A	V	A				kW						A	mm^2	mm^2	mm
Switch-disconnectors - selection data in accordance with: IEC 60947, IEC 60204, BS EN 60947, BS EN 60204																
KG10	20	690	-	-	-	20	1.1	2.2	3.7	1.5	3	5.5	20	2.5	1.5	-
KG20	25	690	-	-	-	25	1.5	4	5.5	2.2	5.5	7.5	35	6	4	-
KG32	32	690	-	-	-	32	2.2	5.5	7.5	3	5.5	11	35	6	4	-
KG41	40	690	-	-	-	40	3	7.5	11	4	7.5	15	50	16	10	-
KG64	63	690	-	-	-	63	4	11	18.5	5.5	11	22	63	16	10	-
KG80	80	690	-	-	-	80	7.5	15	22	10	18.5	30	80	50	35	-
KG100	100	690	-	-	-	100	8.5	18.5	30	11	22	37	100	50	35	-
KG105	125	690	-	-	-	125	-	22	37	-	25	45	125	50	35	-
KG125	125	1000[1)]	-	-	-	125	-	22	37	-	30	45	125	95	70	-
KG160	160	1000[1)]	-	-	-	160	-	30	45	-	30	55	160	95	70	-
KG210	200	1000[1)]	-	-	-	200	-	37	55	-	37	75	200	185	120	-
KG250	250	1000[1)]	-	-	-	250	-	37	55	-	37	90	250	185	120	-
KG315	315	1000[1)]	-	-	-	315	-	45	75	-	55	110	315	185	120	-
KH16	16	800[1)]	-	-	-	16	1.5	3	5.5	2	4.5	7.5	25	6	4	-
KH20	20	800[1)]	-	-	-	20	2	3.5	6.5	2.5	5.5	10	32	6	4	-
KH25	25	800[1)]	-	-	-	25	2.5	4	7.5	3.3	7	12	35	6	4	-
KH32	32	800[1)]	-	-	-	32	3	5.5	11	4.2	9	16	35	10	6	-
KH40	40	800[1)]	-	-	-	40	4.5	7.5	15	5.5	11	20	50	10	6	-
KH63	63	1000[1)]	-	-	-	63	7.5	11	22	8.5	18.5	30	80	35	25	-
KH80	80	1000[1)]	-	-	-	80	10	15	30	11	23	40	100	35	25	-
KH85	100	1000[1)]	-	-	-	100	10	-	-	11	-	-	100	35	25	-
Auxiliary contacts - selection data in accordance with: IEC 60947, BS EN 60947.																
KG10	20	690	6	6	4	20	-	-	-	-	-	-	20	2.5	2.5	-
KG20 & KG32	10	500	2.5	2.5	1.5	10[2)]	-	-	-	-	-	-	10	1.5	1.5	-
KG41 - KG105	16	690	6	6	3	16	-	-	-	-	-	-	16	2.5	2.5	-
KG125 - KG315	16	690	6	6	3	16	-	-	-	-	-	-	16	2.5	2.5	-

Switch Selection – Common Rating Data and Utilization Categories

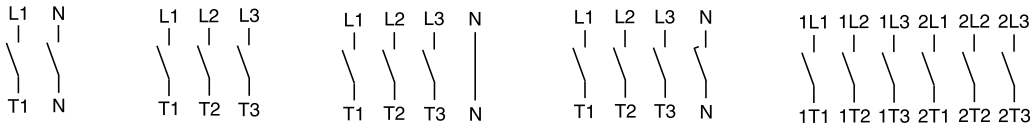
Switch Rating or Utilization Category	Description
Rated insulation voltage, U_i	Maximum value of operational voltage
Thermal current, I_{th}	Maximum value of current that the switch can carry (not switch) when mounted in free air Max. ambient air temperature for stated value:- KG/KH switches : +50°c average over 24 hours with peaks up to 55°c
AC-3	For the selection of switches used for starting of squirrel cage motors and switching off during running
AC-15	For selection of switches to be used for the control of an a.c. electromagnetic load, e.g. contactor coils
AC-21A	For selection of switches required for switching of resistive loads, including moderate overloads
AC-23A	For selection of switches required for switching motor loads or other highly inductive loads Normal selection criteria for emergency-off switches for motors and switches used for safety isolation of motors (switch-disconnectors) such as Off/On, main or main/emergency-off switches.

Notes: **1) Only valid for no-load switching (AC-20A) above 690v.**
2) Max 500v

Switch Disconnectors

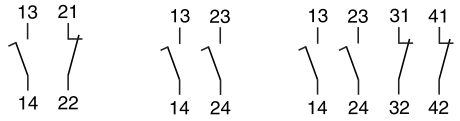
Off - On

Main Contacts



2 pole KG10 | 3 pole | 3 pole + N link | 4 pole | 6 pole

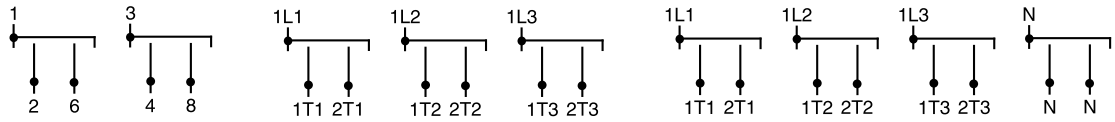
Auxiliary Contacts



1 N.O. + 1 N.C. | 2 N.O. | 2 N.O. + 2 N.C. KG125 - KG315

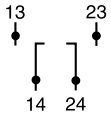
Changeover with Centre Off

Main Contacts



2 pole | 3 pole | 4 pole

Auxiliary Contacts



2 contacts
(1 closed in each On position)

Side Mounting Auxiliary Contacts

	Fitted on LH side	Fitted on RH side	Fitted on LH side	Fitted on RH side
For 'E' mounting (Front mounting switches)	33 41 / 34 42	53 61 / 54 62	013 023 031 / 014 024 032	043 053 061 / 044 054 062
For 'VE' mounting (Base mounting switches)	31 43 / 32 44	51 63 / 52 64	011 023 033 / 012 024 034	041 053 063 / 042 054 064
	H010/A11-.		H010/A21-.	

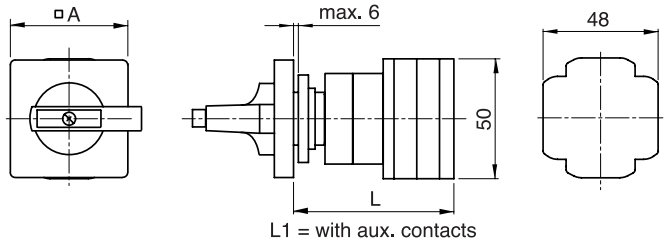
<Back to index>

Dimensions (mm)

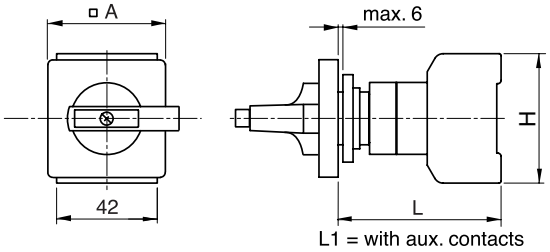
KG Main/Emergency-off switches

Front Panel Mounting - Single Hole Fixing

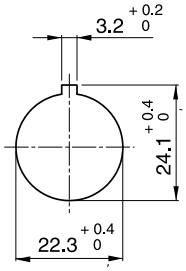
KG10 - 2 & 3 Pole



KG20 & KG32 - 3 Pole



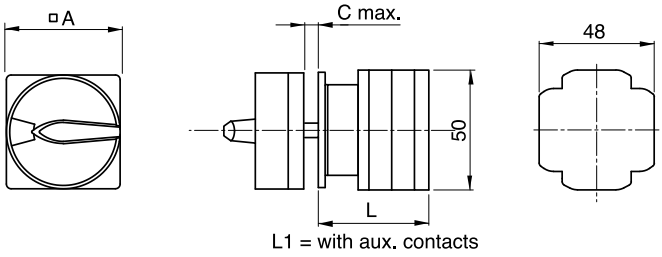
Mounting Hole



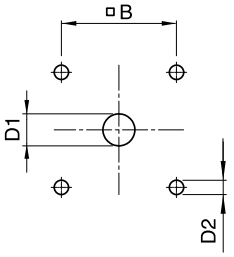
	A	H	L 2 Pole	L 3/4 Pole	L1 3/4 Pole
KG10A	48	-	57.4	66.9	76.4
KG20A, KG32A	48	54	-	68.3	77.3

Front Panel Mounting - 4 Hole Fixing

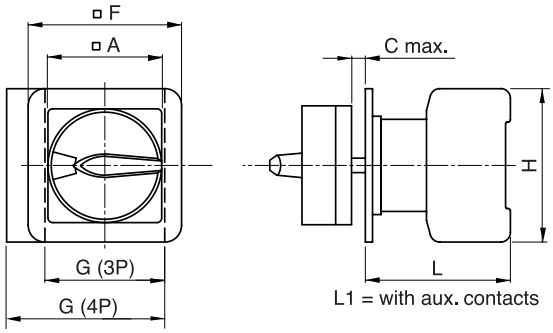
KG10 - 2, 3 & 4 Pole



Mounting Holes

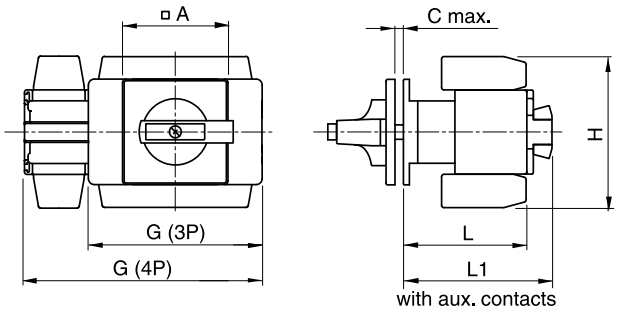


KG20 to KG105 - 3 & 4 Pole



	A	B	C	D1	D2	F
KG10A	48	36	4	11 - 15	5	-
KG20A, KG32A	48	36	4	10 - 15	5	48
KG41B, KG64B	64	48	4	10 - 15	5	64
KG80, KG100, KG105	64	48	4	10 - 15	5	70
KG125, KG160	88	68	5.5	13 - 17	6	-
KG210, KG250, KG315	88	68	5.5	13 - 17	6	-

KG125 to KG315 - 3 & 4 Pole



	G 3 Pole	G 4 Pole	H	L	L1
KG10A - 2 pole	-	-	-	38.7	-
KG10A - 3/4 pole	-	-	-	48.2	57.7
KG20A, KG32A	42	55.5	54	53.8	62.8
KG41B, KG64B	50	66	64	60.5	70.5
KG80, KG100	70	92	80	70.6	80.6
KG105	70	92	80	70.6	80.6
KG125, KG160	112	150	108	96	117
KG210, KG250, KG315	145	197.5	126	103	124

'H' dimension does not include the terminal covers. To obtain the dimension across the terminal cover(s) add the following to dimension 'H'.

KG80/100/105: add 26 mm on side that cover is fitted.

KG125/160: add 22.5 mm on side that cover is fitted

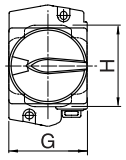
KG210/250/315: add 50 mm to 'H' dimension

Factory fitted auxiliary contacts are integral with the main switch body – they are not side mounting type.

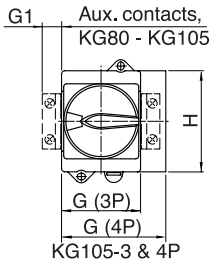
Base Mounting with Door Interlock

3, 3 + N & 4 Pole - plan view

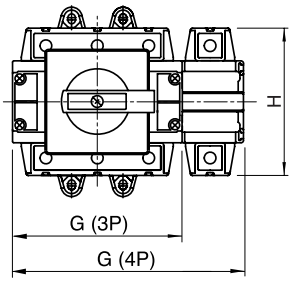
KG10



KG20 to KG105

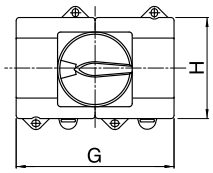


KG125 to KG315

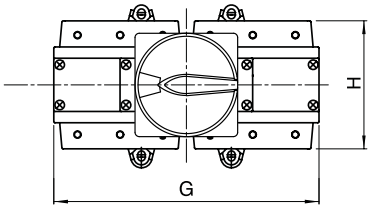


6 Pole - plan view

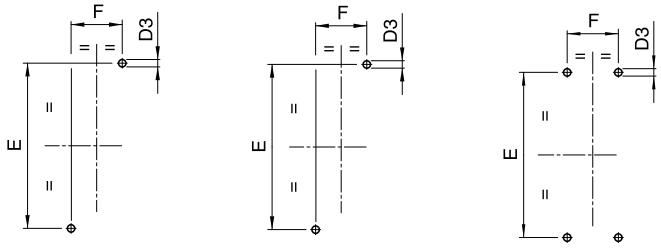
KG20 to KG105



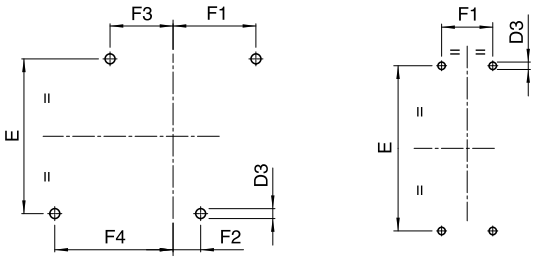
KG125 to KG160



Base Mounting Holes



Base Mounting Holes



	D3	E	F	F1	F2	F3	F4	G 3 Pole	G 3 Pole+N	G 4 Pole	G 6 Pole	G1	H
KG10A & B	5	60	22	-	-	-	-	48	-	48	-	-	50
KG20A & B, KG32A & B	5	60	22	32	10	10	32	42	55.5	55.5	84	-	54
KG41B, KG64B	5	70	25	37.5	12.5	12.5	37.5	50	66	66	100	-	64
KG80, KG100	6	90	25	47.5	22.5	22.5	47.5	70	92	92	140	12.2	80
KG105	6	90	25	-	-	-	-	70	92	92	140	12.2	80
KG125, KG160	6.4	120	36	76	-	-	-	112	-	150	224	-	108
KG210, KG250, KG315	6.4	142	44	-	-	-	-	145	-	197.5	-	-	126

'H' dimension does not include the terminal covers. To obtain the dimension across the terminal cover(s) add the following to dimension 'H'.

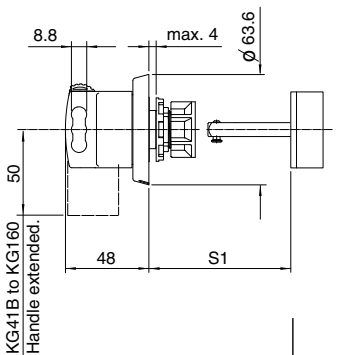
KG80/100/105: add 26 mm on side that cover is fitted.

KG125/160: add 22.5 mm on side that cover is fitted

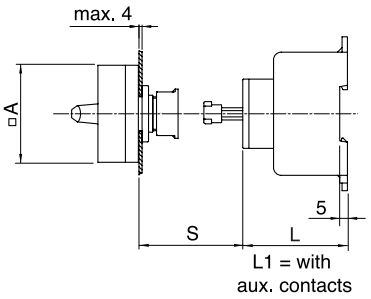
KG210/250/315: add 50 mm to 'H' dimension

Factory fitted auxiliary contacts are integral with the main switch body – they are not side mounting type.
Note: Handle styles vary - see relevant catalogue section for handle style used.

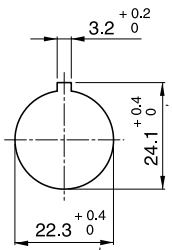
Defeatable Door Interlock, Single Hole Fixing. 3 & 4 Pole Switches



Door Interlock, Single Hole Fixing. 3, 3+N, 4 & 6 Pole KG10 to KG105



Handle Mounting Hole



	A	L 3/4 Pole	L1 3/4 Pole	S	S1 3/4 pole	L 6 Pole	L1 6 Pole	S 6 Pole
KG10A	48	49.2	58.7	31-191	-	-	-	-
KG20A, KG32A	48	50	59	31-196	-	-	-	-
KG20B, KG32B	64	50	59	-	47-202mm	57.5	66.5	31-199
KG41B, KG64B	64	61	71	31-192	31-202mm	67	77	31-193
KG80, KG100, KG105	64	68	78	32-189	32-202mm	79.2	89.2	32-189
KG125, KG160	-	91	91	-	34-263mm	-	-	-

<Back to index>

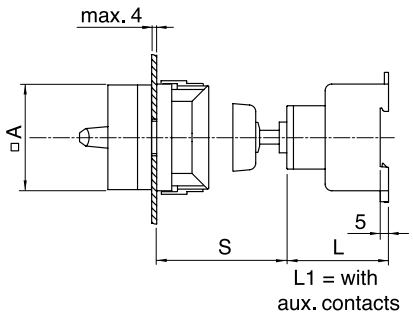
Dimensions (mm)

KG Main/Emergency-off switches

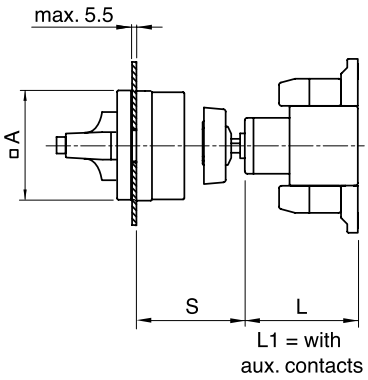
Base Mounting with Door Interlock, Continued

Door Interlock, 4 Hole Fixing. 3, 4 & 6 Pole Switches - side view.

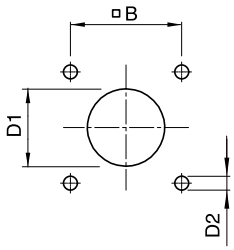
KG10 to KG105



KG125 to KG315



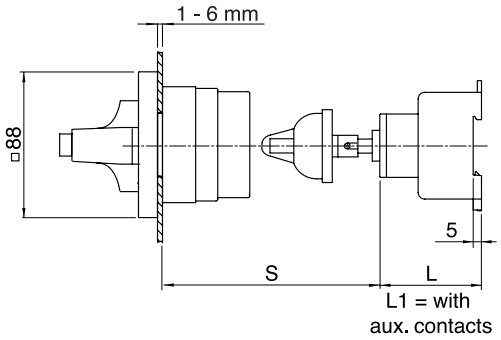
Handle Mounting Holes



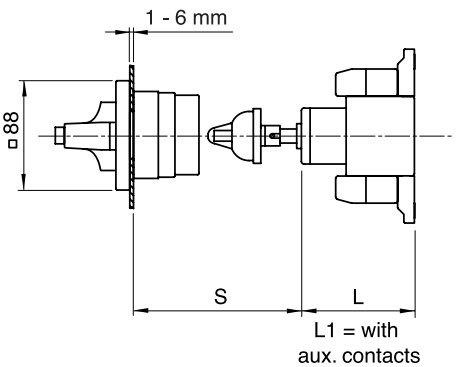
	Shaft Length	A	B	D1	D2	3/4 Pole & 3 Pole + N			6 Pole		
						L	L1	S	L	L1	S
KG10A	200	48	36	18-22	5	49.2	58.7	37-197	-	-	-
KG20A, KG32A	200	48	36	18-22	5	50	59	37-202	-	-	-
KG20B, KG32B	200	64	48	19-22	5	-	-	-	57.5	66.5	37-205
KG41B, KG64B	200	64	48	19-22	5	61	71	35-200	67	77	35-201
KG80, KG100, KG105	200	64	48	19-22	5	68	78	36-197	79.2	89.2	36-197
KG125, KG160	300	88	68	26-30	6	91	91	45-306	93	93	45-306
KG210, KG250, KG315	300	88	68	26-30	6	98	98	45-306	-	-	-

Defeatable Door Interlock, 4 Hole Fixing. 3, 4 & 6 Pole Switches - side view.

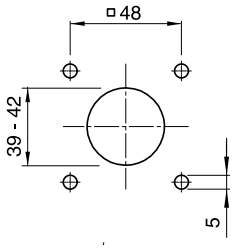
KG41 to KG105



KG125 to KG315



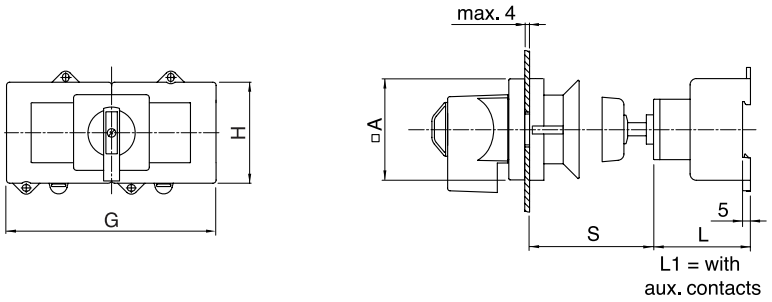
Handle Mounting Holes



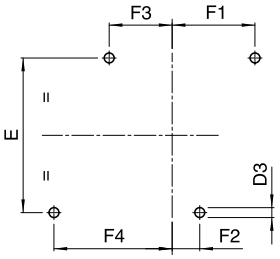
	L 3/4 Pole	L1 3/4 Pole	S 3/4 Pole	L 6 Pole	L1 6 Pole	S 6 Pole
KG41B, KG64B	61	71	72-224	67	77	72-225
KG80, KG100, KG105	68	78	73-221	79.2	89.2	73-221
KG125, KG160	91	91	83-336	93	93	83-336
KG210, KG250, KG315	98	98	83-336	-	-	-

Base Mounting with Door Interlock, 4 Hole Fixing

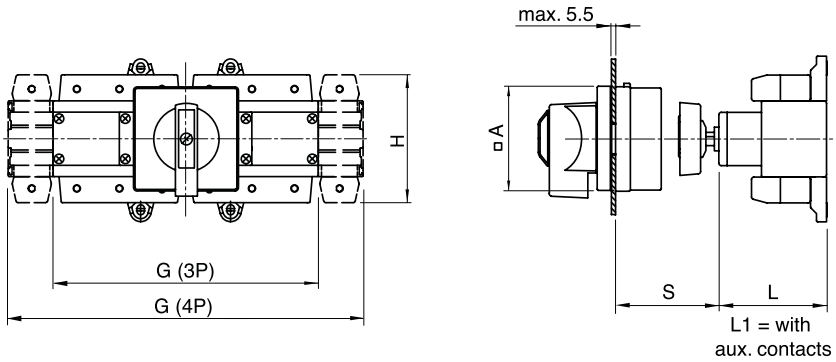
KG20 to KG105 - 3 & 4 Pole



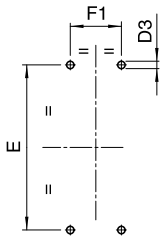
Base Mounting Holes



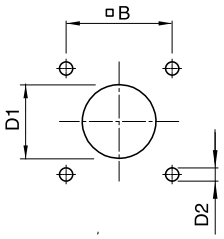
KG125 to KG160 - 3 & 4 Pole



Base Mounting Holes



Handle Mounting Holes



	A	B	D1	D2	D3	E	F1	F2	F3 3 Pole
KG20B, KG32B	64	48	19 - 22	5	5	60	32	10	10
KG41B, KG64B	64	48	19 - 22	5	5	70	37.5	12.5	12.5
KG80, KG100	88	48	19 - 22	5	6	90	47.5	22.5	22.5
KG105	88	48	19 - 22	5	6	90	47.5	22.5	-
KG125, KG160	88	68	26 - 30	6	6.4	120	76	-	-

	F4 3 Pole	F3 4 Pole	F4 4 Pole	G 3 Pole	G 4 Pole	H	L	L1	S
KG20B, KG32B	32	23.5	45.5	84	111	54	57.5	66.5	37-125
KG41B, KG64B	37.5	28.5	53.5	100	132	64	67	77	35-131
KG80, KG100	47.5	44.5	69.5	140	184	80	79.2	89.2	36-127
KG105	-	44.5	69.5	140	184	80	79.2	89.2	36-127
KG125, KG160	-	-	-	224	300	108	93	93	45-196

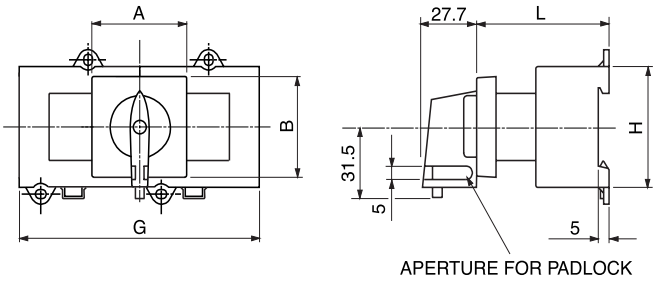
Factory fitted auxiliary contacts are integral with the main switch body – they are not side mounting type.

<Back to index>

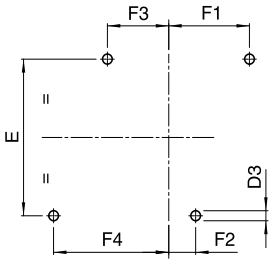
KG Changeover switches

Base Mounting - For 45 mm Installation Cut - Out

KG41 to KG105 - 4 Pole



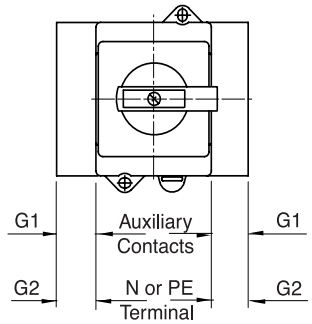
Mounting Holes



	A	B	D3	E	F1	F2	F3	F4	G	H	L
KG41B, KG64B	105.4	45.4	5	70	37.5	12.5	28.5	53.5	132	64	67.5
KG80, KG100, KG105	70	45	6	90	47.5	22.5	44.5	69.5	184	80	81.2

KG Switch options

Side Mounting Modules

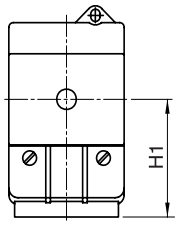


	G1	G2
KG20A & B, KG32A & B	10	13.5
KG41B, KG64B	11	16
KG80, KG100, KG105	11	22
KG125, KG160	14	38
KG210, KG250, KG315	14	52.5

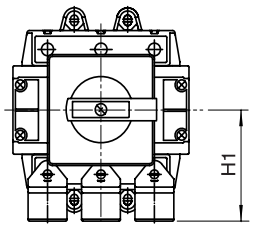
Note:
KG125 to KG315 4 pole switches cannot have additional modules fitted on the side adjacent to the 4th pole (switched neutral).

Terminal Covers

KG10 to KG105



KG125 to KG315

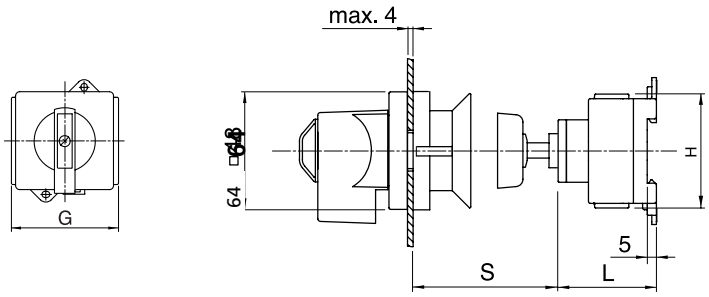


	H1
KG10A & B	32
KG20A & B, KG32A & B	47
KG41B, KG64B	49
KG80, KG100, KG105	66
KG125, KG160	76.2
KG210, KG250, KG315	88

KG Changeover switches

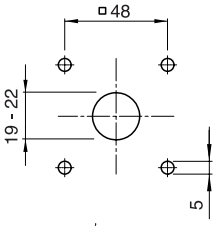
Base Mounting With Door Interlock, 4 Hole Fixing

KH16 to KH85 - 2 Pole

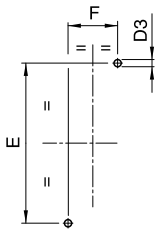


Mounting Holes

Handle



Base

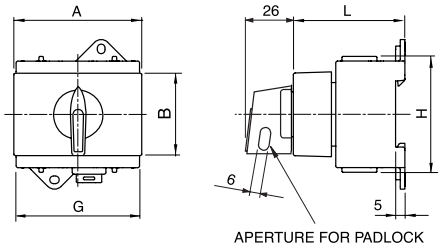


'H' dimension for KH63/80/85 does not include the terminal cover. To obtain the dimension across the terminal cover(s) add 23.5 mm on side that cover is fitted.

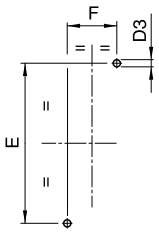
	D3	E	F	G	H	L	S
KH16, KH20, KH25	5	60	22	60	56	47	37-122
KH32, KH40	5	70	25	70	62	53.5	39-132
KH63, KH80, KH85	6	90	25	86	90	59.5	39-132

Base Mounting - For 45 mm Installation Cut-Out

KH16 to KH85 - 2 Pole



Mounting Holes



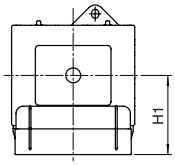
	A	B	D3	E
KH16, KH20, KH25	43.7	45.4	5	60
KH32, KH40	70.4	45.4	5	70
KH63, KH80, KH85	70.4	45.4	6	90

	F	G	H	L
KH16, KH20, KH25	22	60	56	58.5
KH32, KH40	25	70	62	59.7
KH63, KH80, KH85	25	86	90	66.7

<Back to index>

KG Switch options

Terminal Covers



	H1
KH32, KH40	45
KH63, KH80, KH85	68.5