



Kraus & Naimer Ltd.

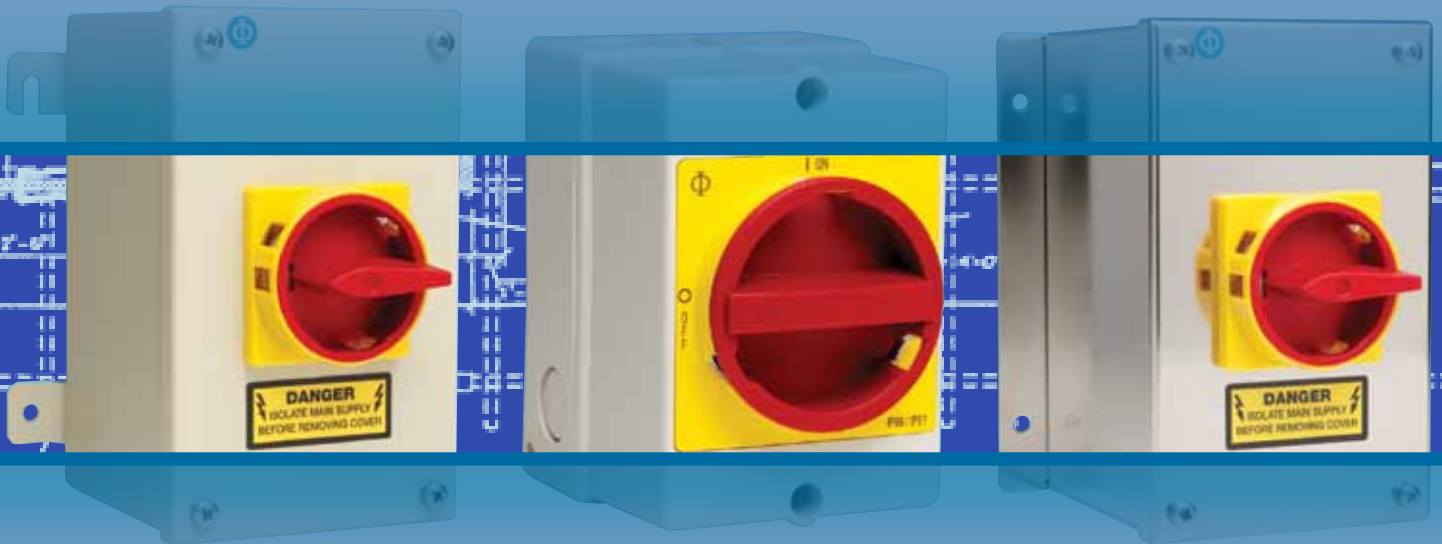
BLUE LINE switchgear

UK

since 1907

enclosed product catalogue 2010

isolating switches • main/emergency off switches • changeover switches
insulated • stainless steel • mild steel



enclosed switch catalogue




This catalogue contains the most popular Kraus & Naimer Blue Line enclosed products; including our range of painted mild steel and stainless steel enclosed KG Switch-disconnectors and Changeover Switches. The stainless steel units are ideally suited for use in areas, such as food processing, where non-corrosion is of the utmost importance.

The content of the catalogue has been designed for ease of use and selection; with 'one-line' product coding for ordering purposes. Please contact our Sales Team at Newbury if you would like assistance in the selection of a product or require additional information on the range of products available from Kraus & Naimer.

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



KL51V

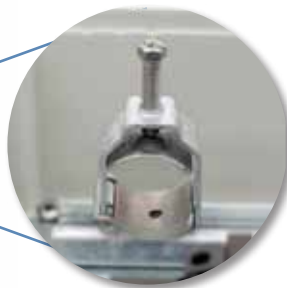
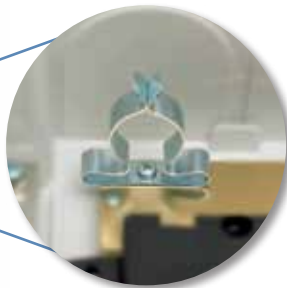
- integral metal plate to maintain cable screen continuity between input and output cables
- screen termination by spring clamp (KG10 - KG100) or screw clamp (KG125 - KG315)
- Connections for screened control cables also available
- IP66/67 protection.
- red/yellow padlockable handle.
- optional black handle available.
- insulated enclosure, grey.
- switch interlocked with lid to prevent opening in 'ON' position.
- auxiliary contacts are provided as standard

With Auxiliaries:

Ie AC-21A	3 pole + 1 n/o + 1 n/c auxiliary	Encl. Ref	Price, £	6 pole + 1 n/o + 1 n/c auxiliary	Encl. Ref	Price, £
20A	KG10 T203/D-A076 KS51V	KS51V	40.99			
25A	KG20 T203/D-A159 KL51V	KL51V	50.06	KG20B T206/D-A059 KL11V	KL11V	75.56
32A	KG32 T203/D-A117 KL51V	KL51V	53.94	KG32B T206/D-A054 KL11V	KL11V	83.33
40A	KG41 T203/D-A145 KL11V	KL11V	64.82	KG41B T206/D-A052 KL71V	KL71V	114.28
63A	KG64 T203/D-A173 KL11V	KL11V	71.29	KG64B T206/D-A066 KL71V	KL71V	127.23
80A	KG80 T203/D-A108 KL71V	KL71V	103.53	KG80C T206/D-A070 STM	STM	373.32
100A	KG100 T203/D-A120 KL71V	KL71V	114.93	KG100C T206/D-A060 STM	STM	396.11
125A	KG125 T203/D-A082 STM	STM	400.07	KG125 T206/D-A020 STM	STM	695.44
160A	KG160 T203/D-A077 STM	STM	427.72	KG160 T206/D-A040 STM	STM	711.23
250A	KG250 T203/D-A075 STM	STM	467.09			
315A	KG315 T203/D-A034 STM	STM	618.89			



KG10 - KG100



KG125 - KG315



Screened Cable Dimensions (mm)	
KG10	9 - 11
KG20, KG32, KG20B, KG32B	12 - 16
KG41, KG64	12 - 16
KG41B, KG64B	23 - 29
KG80, KG100	23 - 29
KG80C, KG100C	28 - 34
KG125 - KG250	34 - 40
KG315	46 - 52



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



KLDV

KLCV

KSAV

Without Auxiliaries:

le AC-21A	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)		Encl. Ref	Price, £	4 Pole (3ph + Sw N)		Encl. Ref	Price, £
20A	KG10	T203/GBA270 *KS1V	KSAV	18.99	KG10	T203/GBA355 *KS1V	KSAV	20.27	KG10	T204/GBA290 *KS1V	KSAV	20.49
25A	KG20	T203/GBA270 *KS1V	KSAV	21.31	KG20	T203/GBA355 *KS1V	KSAV	22.74	KG20	T204/GBA290 *KS1V	KSAV	26.34
32A	KG32	T203/GBA270 *KS1V	KSAV	24.58	KG32	T203/GBA355 *KS1V	KSAV	26.02	KG32	T204/GBA290 *KS1V	KSAV	30.44
40A	KG41	T203/GBA270 *KL1V	KLCV	37.66	KG41	T203/GBA355 *KL1V	KLCV	39.23	KG41	T204/GBA290 *KL1V	KLCV	42.18
63A	KG64	T203/GBA270 *KL1V	KLCV	44.05	KG64	T203/GBA355 *KL1V	KLCV	45.63	KG64	T204/GBA290 *KL1V	KLCV	50.31
80A	KG80	T203/GBA270 *KL1V	KLDV	73.13	KG80	T203/GBA355 *KL1V	KLDV	76.56	KG80	T204/GBA290 *KL1V	KLDV	81.46
100A	KG100	T203/GBA270 *KL1V	KLDV	83.07	KG100	T203/GBA355 *KL1V	KLDV	86.47	KG100	T204/GBA290 *KL1V	KLDV	94.60
125A	KG105	T203/GBA270 *KL1V	KLDV	145.38	KG105	T203/GBA355 *KL1V	KLDV	153.44	KG105	T204/GBA290 *KL1V	KLDV	165.54
125A ³⁾	KG125	T203/GBA270 *ST	ST3	291.83	KG125	T207/GBA355 *ST	ST3	309.96	KG125	T204/GBA290 *ST	ST3	315.32
160A	KG160	T203/GBA270 *ST	ST3	315.83	KG160	T207/GBA355 *ST	ST3	333.97	KG160	T204/GBA290 *ST	ST3	351.27
200A	KG210	T203/GBA270 *ST	ST3	334.92	KG210	T207/GBA355 *ST	ST4	471.59	KG210	T204/GBA290 *ST	ST4	548.34
250A	KG250	T203/GBA270 *ST	ST3	346.72	KG250	T207/GBA355 *ST	ST4	483.30	KG250	T204/GBA290 *ST	ST4	566.46
315A	KG315	T203/GBA270 *ST	ST3	388.68	KG315	T207/GBA355 *ST	ST4	525.67	KG315	T204/GBA290 *ST	ST4	600.02

With Auxiliaries:

	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)		Encl. Ref	Price, £	4 Pole (3ph + Sw N)		Encl. Ref	Price, £
20A	KG10	T203/GBA281 *KS1V	KSAV	23.54	KG10	T203/GBA374 *KS1V	KSAV	25.09	KG10	T204/GBA311 *KS1V	KSAV	25.14
25A	KG20	T203/GBA280 *KS1V	KSAV	31.01	KG20	T203/GBA373 *KS1V	KSAV	32.68	KG20	T204/GBA310 *KS1V	KSAV	34.77
32A	KG32	T203/GBA280 *KS1V	KSAV	33.97	KG32	T203/GBA373 *KS1V	KSAV	35.61	KG32	T204/GBA310 *KS1V	KSAV	38.52
40A	KG41	T203/GBA280 *KL1V	KLCV	44.46	KG41	T203/GBA373 *KL1V	KLCV	46.05	KG41	T204/GBA310 *KL1V	KLCV	49.95
63A	KG64	T203/GBA280 *KL1V	KLCV	49.73	KG64	T203/GBA373 *KL1V	KLCV	51.29	KG64	T204/GBA310 *KL1V	KLCV	56.06
80A	KG80	T203/GBA280 *KL1V	KLDV	81.02	KG80	T203/GBA373 *KL1V	KLDV	86.59	KG80	T204/GBA310 *KL1V	KLDV	90.04
100A	KG100	T203/GBA280 *KL1V	KLDV	90.97	KG100	T203/GBA373 *KL1V	KLDV	96.50	KG100	T204/GBA310 *KL1V	KLDV	103.16
125A	KG105	T203/GBA280 *KL1V	KLDV	159.20	KG105	T203/GBA373 *KL1V	KLDV	167.32	KG105	T204/GBA310 *KL1V	KLDV	180.54
125A ³⁾	KG125	T203/GBA065 *ST	ST3	303.31	KG125	T207/GBA110 *ST	ST3	321.74	KG125	T204/GBA075 *ST	ST3	327.10
160A	KG160	T203/GBA065 *ST	ST3	327.31	KG160	T207/GBA110 *ST	ST3	345.75	KG160	T204/GBA075 *ST	ST3	363.05
200A	KG210	T203/GBA070 *ST	ST3	354.06	KG210	T207/GBA120 *ST	ST4	490.73	KG210	T204/GBA080 *ST	ST4	567.48
250A	KG250	T203/GBA070 *ST	ST3	365.86	KG250	T207/GBA120 *ST	ST4	502.44	KG250	T204/GBA080 *ST	ST4	585.59
315A	KG315	T203/GBA070 *ST	ST3	407.82	KG315	T207/GBA120 *ST	ST4	544.81	KG315	T204/GBA080 *ST	ST4	619.16



- IP66/67 protection.
- red/yellow padlockable handle.
- optional black handle available.
- insulated enclosure, grey.
- earth terminal included.
- switch interlocked with lid to prevent opening in 'ON' position.

	6 Pole	Encl. Ref	Price, £	Ie AC-21A
	KG10B T206/GBA320 *KS1V	KSAV	29.16	20A
	KG20B T206/GBA320 *KL1V	KLCV	49.55	25A
	KG32B T206/GBA320 *KL1V	KLCV	56.86	32A
	KG41B T206/GBA320 *KL1V	KLDV	71.72	40A
	KG64B T206/GBA320 *KL1V	KLDV	80.14	63A
	KG80 T206/GBA967 *ST	STE	189.28	80A
	KG100 T206/GBA967 *ST	STE	209.10	100A
				125A
	KG125 T206/GBA967 *ST	ST4	518.74	125A ³⁾
	KG160 T206/GBA967 *ST	ST4	571.19	160A
				200A
				250A
				315A

	6 Pole	Encl. Ref	Price, £	8 Pole (2 x 3ph + Sw N)	Encl. Ref	Price, £	Ie AC-21A
	KG10 T206/40 *KS51V	KSAV	30.40	KG10 T208/GBA002 *KS1V	KSAV	40.75	20A
	KG20B T206/GBA330 *KL1V	KLCV	55.68	KG20B T208/GBA008 *KL	KLD	72.23	25A
	KG32B T206/GBA330 *KL1V	KLCV	62.99	KG32B T208/GBA008 *KL	KLD	92.50	32A
	KG41B T206/GBA330 *KL1V	KLDV	78.35	KG41B T208/GBA008 *ST	ST2	160.38	40A
	KG64B T206/GBA330 *KL1V	KLDV	86.77	KG64B T208/GBA008 *ST	ST2	174.15	63A
	KG80 T206/GBA907 *ST	STE	197.86	KG80 T208/GBA008 *ST	ST3	301.72	80A
	KG100 T206/GBA907 *ST	STE	217.67	KG100 T208/GBA008 *ST	ST3	328.31	100A
							125A
	KG125 T206/GBA085 *ST	ST4	530.52	KG125 T208/GBA010 *ST	ST4	532.87	125A ³⁾
	KG160 T206/GBA085 *ST	ST4	582.97	KG160 T208/GBA010 *ST	ST4	597.19	160A
							200A
							250A
							315A

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)
KG20 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.



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



MB8

MB4

MB3

MB2

Without Auxiliaries:

le AC-21A	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)	Encl. Ref	Price, £	4 Pole (3ph + Sw N)	Encl. Ref	Price, £
20A	KG10	T203/GBA119 *MB2	MB2	80.10				KG10 T204/GBA219 *MB2	MB2	82.10
25A	KG20	T203/GBA119 *MB2	MB2	82.96	KG20 T207/GBA170 *MB2	MB2	87.30	KG20 T204/GBA219 *MB2	MB2	88.68
32A	KG32	T203/GBA119 *MB2	MB2	86.61	KG32 T207/GBA170 *MB2	MB2	91.59	KG32 T204/GBA219 *MB2	MB2	93.66
40A	KG41	T203/GBA109 *MB2	MB2	89.77	KG41 T207/GBA170 *MB2	MB2	94.62	KG41 T204/GBA209 *MB2	MB2	96.69
63A	KG64	T203/GBA109 *MB2	MB2	98.86	KG64 T207/GBA170 *MB2	MB2	104.12	KG64 T204/GBA209 *MB2	MB2	107.05
80A	KG80	T203/GBA109 *MB3	MB3	124.27	KG80 T207/GBA170 *MB3	MB3	131.14	KG80 T204/GBA209 *MB3	MB3	134.86
100A	KG100	T203/GBA109 *MB3	MB3	136.67	KG100 T207/GBA170 *MB3	MB3	144.17	KG100 T204/GBA209 *MB3	MB3	150.81
125A	KG105	T203/GBA109 *MB3	MB3	239.17	KG105 T207/GBA170 *MB3	MB3	252.08	KG105 T204/GBA209 *MB3	MB3	263.92
125A ³⁾	KG125	T203/GBA109 *MB8	MB8	312.45	KG125 T207/GBA170 *MB8	MB8	331.03	KG125 T204/GBA209 *MB8	MB8	343.47
160A	KG160	T203/GBA109 *MB8	MB8	339.21	KG160 T207/GBA170 *MB8	MB8	364.87	KG160 T204/GBA209 *MB8	MB8	379.32
200A	KG210	T203/GBA109 *MB9	MB9	406.04	KG210 T207/GBA170 *MB9	MB9	434.71	KG210 T204/GBA209 *MB9	MB9	450.90
250A	KG250	T203/GBA109 *MB9	MB9	418.07	KG250 T207/GBA170 *MB9	MB9	450.37	KG250 T204/GBA209 *MB9	MB9	469.35
275A										
315A	KG315	T203/GBA109 *MB9	MB9	463.50	KG315 T207/GBA170 *MB9	MB9	507.59	KG315 T204/GBA209 *MB9	MB9	529.79

With Auxiliaries:

le AC-21A	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)	Encl. Ref	Price, £	4 Pole (3ph + Sw N)	Encl. Ref	Price, £
20A	KG10	T203/GBA168 *MB2	MB2	82.34				KG10 T204/GBA268 *MB2	MB2	84.36
25A	KG20	T203/GBA169 *MB2	MB2	88.68	KG20 T207/GBA175 *MB2	MB2	92.74	KG20 T204/GBA269 *MB2	MB2	94.12
32A	KG32	T203/GBA169 *MB2	MB2	92.97	KG32 T207/GBA175 *MB2	MB2	97.47	KG32 T204/GBA269 *MB2	MB2	99.54
40A	KG41	T203/GBA159 *MB2	MB2	96.60	KG41 T207/GBA175 *MB2	MB2	101.48	KG41 T204/GBA259 *MB2	MB2	103.55
63A	KG64	T203/GBA159 *MB2	MB2	105.71	KG64 T207/GBA175 *MB2	MB2	110.97	KG64 T204/GBA259 *MB2	MB2	113.90
80A	KG80	T203/GBA159 *MB3	MB3	133.11	KG80 T207/GBA175 *MB3	MB3	140.00	KG80 T204/GBA259 *MB3	MB3	143.72
100A	KG100	T203/GBA159 *MB3	MB3	145.52	KG100 T207/GBA175 *MB3	MB3	153.01	KG100 T204/GBA259 *MB3	MB3	159.65
125A	KG105	T203/GBA159 *MB3	MB3	254.65	KG105 T207/GBA175 *MB3	MB3	267.56	KG105 T204/GBA259 *MB3	MB3	279.38
125A ³⁾	KG125	T203/GBA165 *MB8	MB8	324.23	KG125 T207/GBA180 *MB8	MB8	342.81	KG125 T204/GBA265 *MB8	MB8	355.25
160A	KG160	T203/GBA165 *MB8	MB8	350.99	KG160 T207/GBA180 *MB8	MB8	376.65	KG160 T204/GBA265 *MB8	MB8	391.10
200A	KG210	T203/GBA175 *MB9	MB9	425.18	KG210 T207/GBA185 *MB9	MB9	453.85	KG210 T204/GBA275 *MB9	MB9	470.04
250A	KG250	T203/GBA175 *MB9	MB9	437.21	KG250 T207/GBA185 *MB9	MB9	469.51	KG250 T204/GBA275 *MB9	MB9	488.49
275A										
315A	KG315	T203/GBA175 *MB9	MB9	482.64	KG315 T207/GBA185 *MB9	MB9	526.73	KG315 T204/GBA275 *MB9	MB9	548.93



- IP65 protection.
- red/yellow padlockable handle.
- optional black handle available.
- grey powder paint finish, colour RAL7032
- earth terminal & lid bonding link included.
- switch interlocked with lid to prevent opening in 'ON' position.

6 Pole		Encl. Ref	Price, £	9 Pole		Encl. Ref	Price, £	12 Pole		Encl. Ref	Price, £	le AC-21A
				UK 20/9000ST01 *MB20	MB20	103.05		UK 20/12000ST01 *MB20	MB20	141.52		20A
KG20B T206/GBA309 *MB2	MB2	92.99		UK 25/9000ST01 *MB20	MB20	117.56		UK 25/12000ST01 *MB20	MB20	169.45		25A
KG32B T206/GBA309 *MB2	MB2	100.59		UK 32/9000ST01 *MB20	MB20	133.88		UK 32/12000ST01 *MB20	MB20	201.30		32A
KG41B T206/GBA309 *MB3	MB3	121.68										40A
KG64B T206/GBA309 *MB3	MB3	134.28										63A
KG80 T206/GBA309 *MB4	MB4	193.88										80A
KG100 T206/GBA309 *MB4	MB4	216.09										100A
												125A
KG125 T206/GBA309 *MB9	MB9	444.75										125A ³⁾
KG160 T206/GBA309 *MB9	MB9	498.24										160A
												200A
												250A
C316 T206/GBA309 *MB10	MB10	773.92										275A
												315A

6 Pole		Encl. Ref	Price, £	9 Pole		Encl. Ref	Price, £	12 Pole		Encl. Ref	Price, £	le AC-21A
				UK 20/9020ST01 *MB20	MB20	107.81		UK 20/12020ST01 *MB20	MB20	149.14		20A
KG20B T206/GBA359 *MB2	MB2	99.28		UK 25/9020ST01 *MB20	MB20	125.17		UK 25/12020ST01 *MB20	MB20	181.30		25A
KG32B T206/GBA359 *MB2	MB2	106.88		UK 32/9020ST01 *MB20	MB20	142.15		UK 32/12020ST01 *MB20	MB20	217.10		32A
KG41B T206/GBA359 *MB3	MB3	128.50										40A
KG64B T206/GBA359 *MB3	MB3	141.10										63A
KG80 T206/GBA359 *MB4	MB4	202.74										80A
KG100 T206/GBA359 *MB4	MB4	224.95										100A
												125A
KG125 T206/GBA365 *MB9	MB9	456.53										125A ³⁾
KG160 T206/GBA365 *MB9	MB9	510.02										160A
												200A
												250A
C316 T206/GBA006 *MB10	MB10	779.77										275A
												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.
C316	2 N.O. (early break)
UK250 to UK1000	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.



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



SB8

SB4

SB3

SB2

Without Auxiliaries:

le AC-21A	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)	Encl. Ref	Price, £	4 Pole (3ph + Sw N)	Encl. Ref	Price, £
20A	KG10	T203/GBA419 *SB2	SB2	146.56				KG10 T204/GBA519 *SB2	SB2	148.81
25A	KG20	T203/GBA419 *SB2	SB2	149.76	KG20 T207/GBA420 *SB2	SB2	154.77	KG20 T204/GBA519 *SB2	SB2	156.16
32A	KG32	T203/GBA419 *SB2	SB2	154.54	KG32 T207/GBA420 *SB2	SB2	160.11	KG32 T204/GBA519 *SB2	SB2	162.17
40A	KG41	T203/GBA409 *SB2	SB2	168.79	KG41 T207/GBA420 *SB2	SB2	173.66	KG41 T204/GBA509 *SB2	SB2	175.73
63A	KG64	T203/GBA409 *SB2	SB2	177.89	KG64 T207/GBA420 *SB2	SB2	183.15	KG64 T204/GBA509 *SB2	SB2	186.09
80A	KG80	T203/GBA409 *SB3	SB3	212.87	KG80 T207/GBA420 *SB3	SB3	219.76	KG80 T204/GBA509 *SB3	SB3	223.48
100A	KG100	T203/GBA409 *SB3	SB3	225.28	KG100 T207/GBA420 *SB3	SB3	232.79	KG100 T204/GBA509 *SB3	SB3	239.42
125A	KG105	T203/GBA409 *SB3	SB3	394.24	KG105 T207/GBA420 *SB3	SB3	407.17	KG105 T204/GBA509 *SB3	SB3	418.99
125A ³⁾	KG125	T203/GBA409 *SB8	SB8	474.58	KG125 T207/GBA420 *SB8	SB8	493.15	KG125 T204/GBA509 *SB8	SB8	505.60
160A	KG160	T203/GBA409 *SB8	SB8	501.34	KG160 T207/GBA420 *SB8	SB8	526.99	KG160 T204/GBA509 *SB8	SB8	541.45
200A	KG210	T203/GBA409 *SB9	SB9	580.49	KG210 T207/GBA420 *SB9	SB9	614.64	KG210 T204/GBA509 *SB9	SB9	630.84
250A	KG250	T203/GBA409 *SB9	SB9	603.78	KG250 T207/GBA420 *SB9	SB9	636.11	KG250 T204/GBA509 *SB9	SB9	655.08
315A	KG315	T203/GBA409 *SB9	SB9	649.12	KG315 T207/GBA420 *SB9	SB9	693.30	KG315 T204/GBA509 *SB9	SB9	715.51

With Auxiliaries:

le AC-21A	3 Pole		Encl. Ref	Price, £	3 Pole + Solid Neutral (TP&N)	Encl. Ref	Price, £	4 Pole (3ph + Sw N)	Encl. Ref	Price, £
20A	KG10	T203/GBA468 *SB2	SB2	149.07				KG10 T204/GBA568 *SB2	SB2	151.32
25A	KG20	T203/GBA469 *SB2	SB2	156.14	KG20 T207/GBA480 *SB2	SB2	160.87	KG20 T204/GBA569 *SB2	SB2	162.24
32A	KG32	T203/GBA469 *SB2	SB2	162.08	KG32 T207/GBA480 *SB2	SB2	166.32	KG32 T204/GBA569 *SB2	SB2	168.25
40A	KG41	T203/GBA459 *SB2	SB2	175.64	KG41 T207/GBA480 *SB2	SB2	180.50	KG41 T204/GBA559 *SB2	SB2	182.57
63A	KG64	T203/GBA459 *SB2	SB2	184.73	KG64 T207/GBA480 *SB2	SB2	190.01	KG64 T204/GBA559 *SB2	SB2	192.93
80A	KG80	T203/GBA459 *SB3	SB3	221.73	KG80 T207/GBA480 *SB3	SB3	228.60	KG80 T204/GBA559 *SB3	SB3	232.33
100A	KG100	T203/GBA459 *SB3	SB3	234.13	KG100 T207/GBA480 *SB3	SB3	241.63	KG100 T204/GBA559 *SB3	SB3	248.27
125A	KG105	T203/GBA459 *SB3	SB3	409.73	KG105 T207/GBA480 *SB3	SB3	422.64	KG105 T204/GBA559 *SB3	SB3	434.48
125A ³⁾	KG125	T203/GBA475 *SB8	SB8	486.36	KG125 T207/GBA490 *SB8	SB8	504.93	KG125 T204/GBA565 *SB8	SB8	517.38
160A	KG160	T203/GBA475 *SB8	SB8	513.12	KG160 T207/GBA490 *SB8	SB8	538.77	KG160 T204/GBA565 *SB8	SB8	553.23
200A	KG210	T203/GBA485 *SB9	SB9	599.63	KG210 T207/GBA495 *SB9	SB9	633.78	KG210 T204/GBA575 *SB9	SB9	649.98
250A	KG250	T203/GBA485 *SB9	SB9	622.92	KG250 T207/GBA495 *SB9	SB9	655.25	KG250 T204/GBA575 *SB9	SB9	674.22
315A	KG315	T203/GBA485 *SB9	SB9	668.35	KG315 T207/GBA495 *SB9	SB9	712.44	KG315 T204/GBA575 *SB9	SB9	734.65



- IP65 protection.
- red/yellow padlockable handle.
- optional black handle available.
- bright stainless steel enclosure, grade 316L
- earth terminal & lid bonding link included.
- switch interlocked with lid to prevent opening in 'ON' position.

	6 Pole	Encl. Ref	Price, £	Ie AC-21A
				20A
	KG20B T206/GBA609 *SB2	SB2	172.03	25A
	KG32B T206/GBA609 *SB2	SB2	179.59	32A
	KG41B T206/GBA609 *SB3	SB3	210.29	40A
	KG64B T206/GBA609 *SB3	SB3	222.90	63A
	KG80 T206/GBA609 *SB4	SB4	325.51	80A
	KG100 T206/GBA609 *SB4	SB4	347.71	100A
				125A
	KG125 T206/GBA609 *SB9	SB9	630.49	125A ³⁾
	KG160 T206/GBA609 *SB9	SB9	683.95	160A
				200A
				250A
				315A

	6 Pole	Encl. Ref	Price, £	Ie AC-21A
				20A
	KG20B T206/GBA659 *SB2	SB2	178.33	25A
	KG32B T206/GBA659 *SB2	SB2	185.91	32A
	KG41B T206/GBA659 *SB3	SB3	217.11	40A
	KG64B T206/GBA659 *SB3	SB3	229.75	63A
	KG80 T206/GBA659 *SB4	SB4	334.34	80A
	KG100 T206/GBA659 *SB4	SB4	356.56	100A
				125A
	KG125 T206/GBA665 *SB9	SB9	642.27	125A ³⁾
	KG160 T206/GBA665 *SB9	SB9	695.73	160A
				200A
				250A
				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.
C316	2 N.O. (early break)
UK250 to UK1000	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.



Main/Emergency-Off Switch - 4 & 6 Pole + Emergency Stop Pushbutton
25A - 100A



- IP66 protection.
- red/yellow padlockable handle.
- stayput emergency-stop pushbutton, 1 N.C. contact.
- insulated enclosure, grey.
- earth terminal included.
- switch interlocked with lid to prevent opening in 'ON' position.

le AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
4 pole (3 ph+Sw N¹) + 1 n.o (early break) + 1 n.c. aux			
25A	KG20 T204/GBA285 *KL	KLD	99.86
32A	KG32 T204/GBA285 *KL	KLD	103.46
40A	KG41 T204/GBA285 *KL	KLD	107.06
63A	KG64 T204/GBA285 *KL	KLD	112.74
80A	KG80 T204/GBA285 *KL	KLD	125.40
100A	KG100 T204/GBA285 *KL	KLD	136.37
6 pole + 1 n.o (early break) + 1 n.c. aux			
25A	KG20B T206/GBA095 *KL	KLD	106.30
32A	KG32B T206/GBA095 *KL	KLD	111.97
40A	KG41B T206/GBA095 *KL	KLD	118.12
63A	KG64B T206/GBA095 *KL	KLD	127.60

Main/Emergency-Off Switch - 4 & 6 Pole + Emergency Stop Pushbutton
25A - 100A



- IP65 protection.
- red/yellow padlockable handle.
- stayput emergency-stop pushbutton, 1 N.C. contact.
- grey powder paint finish, colour RAL7032.
- earth terminal included.
- switch interlocked with lid to prevent opening in 'ON' position.

le AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
4 pole (3 ph+Sw N¹) + 1 n.o (early break) + 1 n.c. aux			
25A	KG20 T204/GBA350 *MB3E	MB3E	154.25
32A	KG32 T204/GBA350 *MB3E	MB3E	159.77
40A	KG41 T204/GBA350 *MB3E	MB3E	165.58
63A	KG64 T204/GBA350 *MB3E	MB3E	177.49
80A	KG80 T204/GBA350 *MB3E	MB3E	195.25
100A	KG100 T204/GBA350 *MB3E	MB3E	213.56
6 pole + 1 n.o (early break) + 1 n.c. aux			
25A	KG20B T206/GBA155 *MB3E	MB3E	168.56
32A	KG32B T206/GBA155 *MB3E	MB3E	177.28
40A	KG41B T206/GBA155 *MB3E	MB3E	187.88
63A	KG64B T206/GBA155 *MB3E	MB3E	202.41

Main/Emergency-Off Switch - 4 & 6 Pole + Emergency Stop Pushbutton
25A - 100A



- IP65 protection.
- red/yellow padlockable handle.
- stayput emergency-stop pushbutton, 1 N.C. contact.
- bright stainless steel enclosure, grade 316L.
- earth terminal included.
- switch interlocked with lid to prevent opening in 'ON' position.

le AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
4 pole (3 ph+Sw N¹) + 1 n.o (early break) + 1 n.c. aux			
25A	KG20 T204/GBA440 *SB3E	SB3E	195.75
32A	KG32 T204/GBA440 *SB3E	SB3E	201.28
40A	KG41 T204/GBA440 *SB3E	SB3E	207.08
63A	KG64 T204/GBA440 *SB3E	SB3E	219.00
80A	KG80 T204/GBA440 *SB3E	SB3E	259.33
100A	KG100 T204/GBA440 *SB3E	SB3E	277.64
6 pole + 1 n.o (early break) + 1 n.c. aux			
25A	KG20B T206/GBA555 *SB3E	SB3E	210.06
32A	KG32B T206/GBA555 *SB3E	SB3E	218.79
40A	KG41B T206/GBA555 *SB3E	SB3E	240.67
63A	KG64B T206/GBA555 *SB3E	SB3E	255.20

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



Main/Emergency-Off Switch - 2, 3 & 4 Pole
20A - 63A



- IP40 protection. IP65 can be achieved if suitable sealant is used between face plate/mounting surface and under the head of the countersunk fixing screws.
- red/yellow padlockable handle.
- optional black handle available.
- bright stainless steel flush mounting front plate, grade 316L - earth stud included.
- galvanised steel adaptable box included, with M20 conduit knockouts and earth stud.
- Auxiliary contact available.

le AC-21A	Order Code No.			Encl. Ref.	List Price Each, £
2 pole					
20A	KG10	T202/GBA011	*SF1	SF1	44.42
3 pole					
20A	KG10	T203/GBA286	*SF1	SF1	47.82
25A	KG20	T203/GBA286	*SF2	SF2	50.55
32A	KG32	T203/GBA286	*SF2	SF2	55.83
40A	KG41	T203/GBA286	*SF3	SF3	71.70
63A	KG64	T203/GBA286	*SF3	SF3	98.60
4 pole					
20A	KG10	T204/GBA304	*SF1	SF1	50.84
25A	KG20	T204/GBA304	*SF2	SF2	57.40
32A	KG32	T204/GBA304	*SF2	SF2	64.08
40A	KG41	T204/GBA304	*SF3	SF3	81.02
63A	KG64	T204/GBA304	*SF3	SF3	112.22

MILD & STAINLESS STEEL ENCLOSURE

Main Switches - 3 & 4 Pole
250A - 1250A



- IP65 protection.
- black padlockable handle
- earth terminal & lid bonding link included.
- grey powder paint finish, colour RAL7032.
- switch interlocked with lid to prevent opening in 'ON' position.
- 1 N.O. (early break) + 1 N.C. aux contact provided.



- IP65 protection.
- black padlockable handle
- earth terminal & lid bonding link included.
- bright stainless steel enclosure, grade 316L.
- switch interlocked with lid to prevent opening in 'ON' position.
- 1 N.O. (early break) + 1 N.C. aux contact provided.

Mild Steel Enclosure

le AC-21A	3 Pole + aux		Encl. Ref	Price, £	3 Pole + aux + Neutral Link		Encl. Ref	Price, £	4 Pole + aux		Encl. Ref	Price, £
250A	UK250/A	3011ST02*MB25	MB25	740.83	UK250/A	3111ST02*MB25	MB25	788.77	UK250/A	4011ST02*MB25	MB25	808.49
315A	UK315/A	3011ST02*MB26	MB26	784.02	UK315/A	3111ST02*MB26	MB26	860.59	UK315/A	4011ST02*MB26	MB26	882.10
400A	UK400/A	3011ST02*MB26	MB26	824.27	UK400/A	3111ST02*MB26	MB26	880.59	UK400/A	4011ST02*MB26	MB26	902.60
630A	UK630/A	3011ST02*MB27	MB27	1170.11	UK630/A	3111ST02*MB27	MB27	1290.51	UK630/A	4011ST02*MB27	MB27	1322.77
800A	UK800/A	3011ST02*MB28	MB28	1683.01	UK800/A	3111ST02*MB28	MB28	1803.41	UK800/A	4011ST02*MB28	MB28	1848.49
1000A	UK1000/A	3011ST02*MB28	MB28	2589.56	UK1000/A	3111ST02*MB28	MB28	2861.82	UK1000/A	4011ST02*MB28	MB28	2933.36
1250A	UK1250/A	3011ST02*MB28	MB28	2721.19	UK1250/A	3111ST02*MB28	MB28	2993.45	UK1250/A	4011ST02*MB28	MB28	3118.52

Stainless Steel Enclosure

le AC-21A	3 Pole + aux		Encl. Ref	Price, £	3 Pole + aux + Neutral Link		Encl. Ref	Price, £	4 Pole + aux		Encl. Ref	Price, £
250A	UK250/A	3011ST02*SB25	SB25	1017.36	UK250/A	3111ST02*SB25	SB25	1065.30	UK250/A	4011ST02*SB25	SB25	1091.93
315A	UK315/A	3011ST02*SB26	SB26	1060.55	UK315/A	3111ST02*SB26	SB26	1137.12	UK315/A	4011ST02*SB26	SB26	1165.55
400A	UK400/A	3011ST02*SB26	SB26	1168.67	UK400/A	3111ST02*SB26	SB26	1225.12	UK400/A	4011ST02*SB26	SB26	1255.75
630A	UK630/A	3011ST02*SB27	SB27	1524.33	UK630/A	3111ST02*SB27	SB27	1644.73	UK630/A	4011ST02*SB27	SB27	1685.85
800A	UK800/A	3011ST02*SB28	SB28	2793.91	UK800/A	3111ST02*SB28	SB28	2914.31	UK800/A	4011ST02*SB28	SB28	2987.17
1000A	UK1000/A	3011ST02*SB28	SB28	3700.45	UK1000/A	3111ST02*SB28	SB28	3972.71	UK1000/A	4011ST02*SB28	SB28	4072.03
1250A	UK1250/A	3011ST02*SB28	SB28	3832.08	UK1250/A	3111ST02*SB28	SB28	4104.34	UK1250/A	4011ST02*SB28	SB28	4206.95



Changeover Switch with Centre Off - 2, 3 & 4 Pole 16A - 160A



- IP66/67 protection.
- auxiliary contacts provided with 3 & 4 pole switches.
- black handle, padlockable in Off position.
- earth terminal.
- insulated enclosure, grey.
- switch interlocked with lid to prevent opening in 'ON' position.

Insulated:

le AC-21A	2 Pole		Encl. Ref	Price, £	3 Pole ¹⁾		Encl. Ref	Price, £	4 Pole (3ph+SwN ²⁾ ¹⁾		Encl. Ref	Price, £
16A	KH16	T902/GBA002 *KS52	KSA	31.98								
20A	KH20	T902/GBA002 *KS52	KSA	33.92								
25A	KH25	T902/GBA002 *KS52	KSA	38.07	KG20B	T903/GBA013 *KL	KLC	70.82	KG20B	T904/GBA014 *KL	KLD	97.63
32A	KH32	T902/GBA002 *KL12	KLC	53.28	KG32B	T903/GBA013 *KL	KLC	78.58	KG32B	T904/GBA014 *KL	KLD	107.45
40A	KH40	T902/GBA002 *KL12	KLC	57.46	KG41B	T903/GBA013 *KL	KLD	107.19	KG41B	T904/GBA004 *ST	ST2	165.67
63A	KH63	T902/GBA002 *KL72	KLE	85.29	KG64B	T903/GBA013 *KL	KLD	125.77	KG64B	T904/GBA004 *ST	ST2	178.29
80A	KH80	T902/GBA002 *KL72	KLE	97.47	KG80	T903/GBA013 *ST	STE	260.09	KG80	T904/GBA004 *ST	ST3	333.47
100A	KH85	T902/GBA012 *KL72	KLE	147.93	KG100	T903/GBA013 *ST	STE	294.20	KG100	T904/GBA004 *ST	ST3	394.51
125A									KG105	T904/GBA004 *ST	ST3	512.87
125A ³⁾					KG125	T903/GBA035 *ST	ST4	559.08	KG125	T904/GBA045 *ST	ST4	622.32
160A					KG160	T903/GBA035 *ST	ST4	611.57	KG160	T904/GBA045 *ST	ST4	692.62



- IP65 protection.
- auxiliary contacts provided with 3 & 4 pole switches.
- black handle, padlockable in Off position.
- earth terminal & lid bonding link included.
- grey powder paint finish, colour RAL7032.
- switch interlocked with lid to prevent opening in 'ON' position.

Mild Steel:

le AC-21A	2 Pole		Encl. Ref	Price, £	3 Pole ¹⁾		Encl. Ref	Price, £	4 Pole (3ph+SwN ²⁾ ¹⁾		Encl. Ref	Price, £
16A	KH16	T902/GBA020 *MB2	MB2	80.34								
20A	KH20	T902/GBA020 *MB2	MB2	83.18								
25A	KH25	T902/GBA020 *MB2	MB2	87.28	KG20B	T903/GBA030 *MB3	MB3	115.45	KG20B	T904/GBA040 *MB3	MB3	126.03
32A	KH32	T902/GBA020 *MB2	MB2	96.42	KG32B	T903/GBA030 *MB3	MB3	123.02	KG32B	T904/GBA040 *MB3	MB3	135.65
40A	KH40	T902/GBA020 *MB2	MB2	101.14	KG41B	T903/GBA030 *MB3	MB3	136.01	KG41B	T904/GBA040 *MB3	MB3	150.67
63A	KH63	T902/GBA020 *MB3	MB3	132.30	KG64B	T903/GBA030 *MB3	MB3	148.67	KG64B	T904/GBA040 *MB3	MB3	165.83
80A	KH80	T902/GBA020 *MB3	MB3	169.33	KG80	T903/GBA030 *MB4	MB4	208.16	KG80	T904/GBA040 *MB4	MB4	233.40
100A	KH85	T902/GBA020 *MB3	MB3	191.84	KG100	T903/GBA030 *MB4	MB4	229.80	KG100	T904/GBA040 *MB4	MB4	262.15
125A									KG105	T904/GBA040 *MB4	MB4	419.43
125A ³⁾					KG125	T903/GBA055 *MB9	MB9	460.04	KG125	T904/GBA065 *MB9	MB9	513.49
160A					KG160	T903/GBA055 *MB9	MB9	524.47	KG160	T904/GBA065 *MB9	MB9	596.12



- IP65 protection.
- auxiliary contacts provided with 3 & 4 pole switches.
- black handle, padlockable in Off position.
- earth terminal & lid bonding link included.
- bright stainless steel enclosure, grade 316L.
- switch interlocked with lid to prevent opening in 'ON' position.

Stainless Steel:

le AC-21A	2 Pole		Encl. Ref	Price, £	3 Pole ¹⁾		Encl. Ref	Price, £	4 Pole (3ph+SwN ²⁾) ¹⁾		Encl. Ref	Price, £
16A	KH16	T902/GBA025 *SB2	SB2	141.39								
20A	KH20	T902/GBA025 *SB2	SB2	144.23								
25A	KH25	T902/GBA025 *SB2	SB2	148.32	KG20B	T903/GBA050 *SB3	SB3	204.07	KG20B	T904/GBA060 *SB3	SB3	214.68
32A	KH32	T902/GBA025 *SB2	SB2	157.37	KG32B	T903/GBA050 *SB3	SB3	211.64	KG32B	T904/GBA060 *SB3	SB3	224.25
40A	KH40	T902/GBA025 *SB2	SB2	185.36	KG41B	T903/GBA050 *SB3	SB3	224.64	KG41B	T904/GBA060 *SB3	SB3	239.29
63A	KH63	T902/GBA025 *SB3	SB3	207.91	KG64B	T903/GBA050 *SB3	SB3	237.28	KG64B	T904/GBA060 *SB3	SB3	254.46
80A	KH80	T902/GBA025 *SB3	SB3	244.95	KG80	T903/GBA050 *SB4	SB4	339.76	KG80	T904/GBA060 *SB4	SB4	365.00
100A	KH85	T902/GBA025 *SB3	SB3	284.61	KG100	T903/GBA050 *SB4	SB4	361.44	KG100	T904/GBA060 *SB4	SB4	393.79
125A									KG105	T904/GBA060 *SB4	SB4	590.69
125A ³⁾					KG125	T903/GBA075 *SB9	SB9	645.74	KG125	T904/GBA085 *SB9	SB9	699.20
160A					KG160	T903/GBA075 *SB9	SB9	710.17	KG160	T904/GBA085 *SB9	SB9	781.84

Notes

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



Emergency Stop Pushbutton Station



**38 mm diameter red mushroom head
- twist to reset.
1 N.C. contact. Complies with EN 418 / EN 60204-1**

Bright stainless steel enclosure, grade 316L, IP65.
Earth terminal & lid bonding link included

Order Code No.	Encl. Ref.	List Price Each, £
P N091/GBA004 *SB30	SB30	91.97
P N261/GBA005 *SF1A	SF1A	51.17
P SN-GB0001	P1Y	32.77
P SN-GB0024	P2Y	44.97
P N091/GB006 *SB30	SB30	104.58
P N261/GBA007 *SF1A	SF1A	58.95
P SN-GB0003	P1Y	40.42



Bright stainless steel flush mounting front plate, grade 316L - earth stud included, IP40.

Galvanised steel adaptable box included, with M20 conduit knockouts and earth stud.



Insulated enclosure, IP67/IP69K
Top Yellow / Base Black



**94 mm diameter red mushroom head,
palm/foot switch - pull to reset**

Insulated enclosure, IP67/IP69K
Top Yellow/Base Black



**38mm diameter red mushroom head
- key operate to reset (1 key included)**

Bright stainless steel enclosure, grade 316L, IP65.
Earth terminal & lid bonding link included



Bright stainless steel flush mounting front plate, grade 316L - earth stud included, IP40.

Galvanised steel adaptable box included, with M20 conduit knockouts and earth stud.



Insulated enclosure, IP66/IP69K
Top Yellow / Base Black



Emergency Stop Pushbutton Station - with protective shroud



**38 mm diameter red mushroom head
- twist to reset.
1 N.C. contact. Complies with EN 418 / EN 60204-1**

Bright stainless steel enclosure, grade 316L, IP65.
Earth terminal & lid bonding link included

Order Code No.	Encl. Ref.	List Price Each, £
P N091/GBA008 *SB30	SB30	97.78
P N261/GBA010 *SF1A	SF1A	56.98
P SN-GB0053	P1Y	38.58
P N091/GBA009 *SB30	SB30	110.39
P N261/GBA011 *SF1A	SF1A	64.76
P SN-GB0054	P1Y	46.23



Bright stainless steel flush mounting front plate, grade 316L - earth stud included, IP40.

Galvanised steel adaptable box included, with M20 conduit knockouts and earth stud.



Insulated enclosure, IP67/IP69K
Top Yellow / Base Black



**38mm diameter red mushroom head
- key operate to reset (1 key included)**

Bright stainless steel enclosure, grade 316L, IP65.
Earth terminal & lid bonding link included



Bright stainless steel flush mounting front plate, grade 316L - earth stud included, IP40.

Galvanised steel adaptable box included, with M20 conduit knockouts and earth stud.



Insulated enclosure, IP66/IP69K
Top Yellow / Base Black

CONTROL SWITCHES



INSULATED ENCLOSURE

Rotary Control Switch - Insulated Enclosure



Grey Enclosure
IP65

			Order Code No.	Encl. Ref.	List Price Each, £
Off-On	1 pole		KN1	PF1A	16.02
Off-On	3 pole		KN3	PF1B	20.63
Changeover, without Off	1 pole		KN2	PF1A	17.58
Changeover, with Off	2 pole		KN10	PF1B	22.34

Key Operated Control Switch - Insulated Enclosure



Grey Enclosure
IP40

			Order Code No.	Encl. Ref.	List Price Each, £
Off-On ¹⁾	3 pole		CA10 A202/GBA003 *PN	PN1G	33.93
Off-On ¹⁾	4 pole		CA10 A203/GBA003 *PN	PN1G	36.73
Changeover, with Off ¹⁾	2 pole		CA10 A211/GBA009 *PN	PN1G	36.73
Changeover, without Off ¹⁾	2 pole		CA10 A221/GBA003 *PN	PN1G	36.73
Changeover, spring return to Off ²⁾	2 pole		CA10 A215/GBA002 *PN	PN1G	36.73
Step, 3 pos'n, without Off ¹⁾	1 pole		CA10 A230/GBA002 *PN	PN1G	33.93
Step, 4 pos'n, without Off ¹⁾	1 pole		CA10 A231/GBA004 *PN	PN1G	36.73

- Notes**
1. Key removable in all positions.
 2. Key removable in '0' position only.

LOAD SWITCHES



MILD STEEL ENCLOSURE

Changeover Switch with Centre Off - 4 Pole 32A - 275A



- IP65 protection.
- black handle, padlockable in Off position.
- earth terminal & lid bonding link included.
- grey powder paint finish, colour RAL7032.
- switch interlocked with lid to prevent opening in 'ON' position.

I _{the}	I _e AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
4 pole				
32A	32A	CA25 A213/GBA009 *MB20	MB20	142.85
50A	50A	C32 A213/GBA009 *MB20	MB20	194.06
63A	63A	C42 A213/GBA009 *MB20	MB20	213.24
115A	100A	C80 A213/GBA009 *MB22	MB22	382.75
150A	150A	C125 A213/GBA009 *MB22	MB22	514.41
200A	200A	C200-4 A213/GBA002 *MB10	MB10	695.61
275A	275A	C315 A213/GBA002 *MB10	MB10	841.89
4 pole - (3ph+Sw N¹⁾)				
200A	200A	C200-4 A913/GBA001 *MB10	MB10	695.61
275A	275A	C315 A913/GBA001 *MB10	MB10	841.89



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



- grey insulated enclosure.
- IP65 protection.
- red/yellow padlockable handle.
- earth terminal included.
- suitable for safety isolation in accordance with IEC 60947-3/ BS EN 60947-3.

le AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
3 pole			
25A	KN5	PF1E	33.02
32A	KN7	PF1E	45.54
4 pole (3 ph+Sw N¹⁾)			
25A	KN6	PF1E	34.93
32A	KN8	PF1E	48.62

1) Switched neutral pole is early make / late break

Changeover Switch with Centre Off - 2 & 4 Pole 25A - 150A



- grey insulated enclosure.
- IP54 protection. (25A & 32A = IP65)
- grey handle/silver legend.
- earth terminal included.

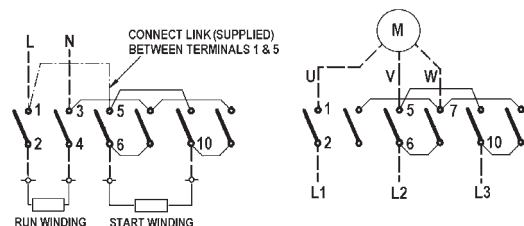
le AC-21A	Order Code No.	Encl. Ref.	List Price Each, £
2 pole			
25A	CA20 A211/GBA005 *PF1	PF1E	34.81
32A	CA25 A211/GBA003 *PF1	PF1E	41.66
40A	C32 A211/GBA096 *ST	ST1B	102.57
63A	C42 A211/GBA096 *ST	ST1B	118.47
100A	C80 C18321 *ST	STB	221.33
150A	C125 C18321 *ST	STC	329.03
4 pole			
25A	CA20 A213/GBA003 *PF1	PF1F	53.59
32A	CA25 A213/GBA002 *PF1	PF1F	65.17
40A	C32 A213/GBA094 *ST	STA	173.76
63A	C42 C18331 *ST	STC	228.56
100A	C80 C18331 *ST	STC	329.36
150A	C125 C18331 *ST	STD	487.97

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



- grey insulated enclosure.
- IP42 protection.
- grey handle/silver legend.
- earth terminal included.

Order Code No.	Encl. Ref.	List Price Each, £
KN4	PN1C	32.30



Switch-Disconnectors, Load Switches & Control Stations

Switch Type	Thermal Rating	Insulation Voltage, U _i	Rated Operating Current & Power						Short Circuit Protection	Terminal Capacity					
	Enclosed rating I _{the}		Operational Current, I _e			Operational Power, 3 ph.			Max. fuse gI/gG char.	Single core/stranded wire.	Flexible wire, with sleeve.	Terminal bolt for Cu bar/lug.			
			AC-15	AC-21A	AC-21B	AC-3	AC-23A								
	A	V	110V	220-240V	380-415V	690V	440V max.	220-240V	380-415V	230-240V	400-415V	A	mm ²	mm ²	mm

Switch-disconnectors - selection data in accordance with: IEC 60947, IEC 60204, BS EN 60947, BS EN 60204

C316 (6 pole)	275	1000	-	-	-	275	-	37	55	75	132	315	150	150	M12
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	14	14	6	32	-	5.5	11	7.5	15	50	2x6	2x4	-
UK250/A	250	1000	-	-	-	250	-	-	-	75	140	315	150		MB8
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	400/2x185		M12
UK800/A	800	1000	-	-	-	800	-	-	-	250	450	800	500/2x240		M12
UK1000/A	1000	1000	-	-	-	1000	-	-	-	-	450	1250	630/2x400		M12
UK1250/A	1250	1000	-	-	-	1250	-	-	-	-	560	1250	2x400		M12

Switches & Control Stations - selection data in accordance with: IEC 60947, BS EN 60947.

CA10	20	690	5	5	4	20	-	3	5.5	3.7	7.5	25	2x2.5	2x2.5	-
CA20	25	690	8	8	5	25	-	4	7.5	5.5	11	35	2x4	2x2.5	-
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	-
C315 (In MB10 encl)	275	690	-	-	-	275	-	37	55	75	132	315	150	150	M12
KN1/KN2/KN3/KN10	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.

Switch-Disconnectors, Load Switches & Control Stations

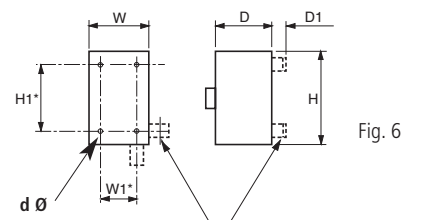
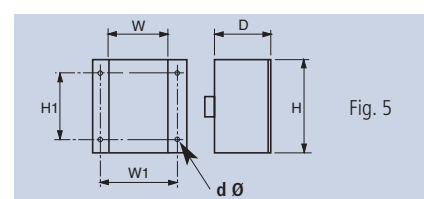
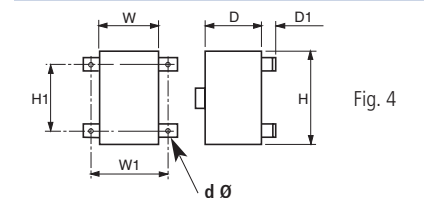
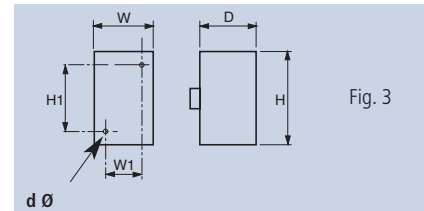
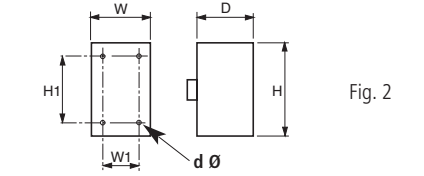
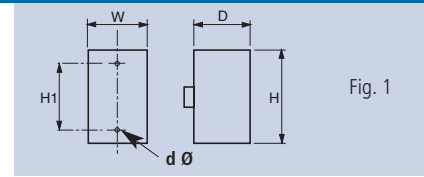
Encl. Ref.	Encl. Dim.				Mtg. Dim.			Cable Entries.	Line Drg.
	H	W	D	D1	H1	W1	d		
Insulated Enclosures									
KSA	120	85	80	-	110	-	4.2	4 x 20mm k'outs	Fig. 1
KSAV/KS51V	120	85	90	-	110	-	4.2	4 x 20mm k'outs	Fig. 1
KLBV/KL51V	160	85	82	-	150	-	4.2	4 x 20mm k'outs	Fig. 1
KLC	190	100	91	-	178	-	5.6	4 x 25mm k'outs	Fig. 1
KLCV/KL11V	190	100	93	-	178	-	5.6	4 x 25mm k'outs	Fig. 1
KLD	250	145	107	-	229	124	6.5	4 x 25mm k'outs	Fig. 2
KLDV/KL71V	250	145	107	-	229	124	6.5	4 x 40mm k'outs	Fig. 2
KLE	250	145	107	-	229	124	6.5	4 x 40mm k'outs	Fig. 2
P1Y	80	72	56	-	66.5	58.5	4.5	1 x 20mm + 2 x 20/25mm k'outs	Fig. 3
P2Y	85	85	101	-	40	65	5.5	3 x 20mm k'outs	Fig. 9
PF1A	72	64	42	-	36	50	4.4	4 x 20mm ISO	Fig. 2
PF1B	72	64	51	-	36	50	4.4	4 x 20mm ISO	Fig. 2
PF1E	92	82	65	-	52	68	4.4	4 x 20mm ISO	Fig. 2
PF1F	92	82	90	-	52	68	4.4	4 x 20mm ISO	Fig. 2
PN1C	72	64	56	-	36	50	4.4	4 x 20mm ISO	Fig. 2
PN1G	72	64	69	-	36	50	4.4	4 x 20mm ISO	Fig. 2
ST1B	180	140	115	-	150	128	5	4 x 20mm ISO	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/STM	560	380	180	-	534	354	7	2 x gland plates	Fig. 2
STA	190	190	180	-	164	164	7	-	Fig. 2
STB	280	190	130	-	254	164	7	1 x gland plate	Fig. 2
STC	280	190	180	-	254	164	7	1 x gland plate	Fig. 2
STD	280	190	230	-	254	164	7	1 x gland plate	Fig. 2
STE	280	190	180	-	254	164	7	2 x gland plates	Fig. 2

Painted & Stainless Steel Enclosures

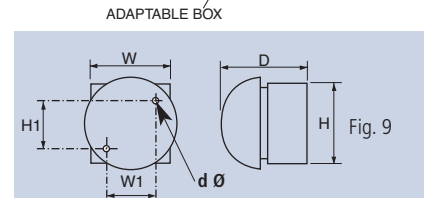
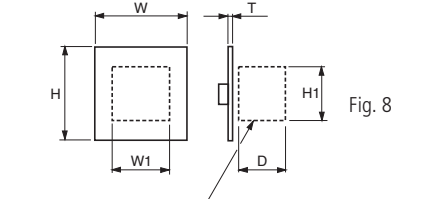
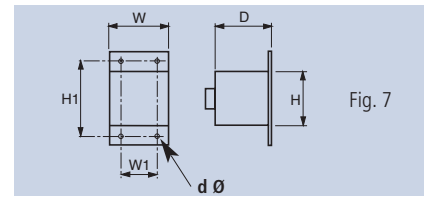
MB1	164	94	80	8	103	112	6	-	Fig. 4
MB2	194	119	115	8	133	137	6	-	Fig. 4
MB3/MB3E	254	149	125	8	193	167	6	-	Fig. 4
MB4	309	234	150	8	248	252	6	-	Fig. 4
MB8/SB8	400	300	175	-	340	240	6.5	2 x gland plates	Fig. 6
MB9/SB9	500	400	175	-	440	340	6.5	2 x gland plates	Fig. 6
MB10	500	400	300	-	440	340	6.5	2 x gland plates	Fig. 6
MB25/SB25	650	450	225	-	590	390	6.5	2 x gland plates	Fig. 6
MB26/SB26	800	550	225	-	740	490	6.5	2 x gland plates	Fig. 6
MB27/SB27	900	600	300	-	840	540	6.5	2 x gland plates	Fig. 6
MB28/SB28	1000	800	400	-	940	740	6.5	4 x gland plates	Fig. 6
MB20	250	175	175	-	225	195	6	-	Fig. 4
MB22	400	300	275	-	340	240	6.5	2 x gland plates	Fig. 6
SB1	164	94	81.5	-	103	112	6	-	Fig. 5
SB2	194	119	116.5	-	133	137	6	-	Fig. 5
SB3/SB3E	254	149	126.5	-	193	167	6	-	Fig. 5
SB4	309	234	151.5	-	248	252	6	-	Fig. 5
SB30	100	100	91.5	-	120	70	6.5	-	Fig. 7

Flush Mounting - Stainless Steel

Encl. Ref.	Front Plate			Adaptable Box			Cable Entries	Line Drg.
	H	W	T	H1	W1	D		
SF1	100	100	2	78	78	77	8 x 20mm k'outs	Fig. 8
SF1A	100	100	2	78	78	52	8 x 20mm k'outs	Fig. 8
SF2	125	125	2	103	103	77	12 x 20mm k'outs	Fig. 8
SF3	175	175	2	153	153	102	16 x 20mm k'outs	Fig. 8



* EXTERNAL MTG. BKT'S - IF FITTED THEY ADD 120mm TO EITHER W1 OR H1 DIMENSION & d Ø = 8.5 DIA.



IP CODES

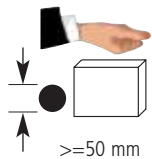
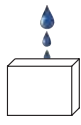
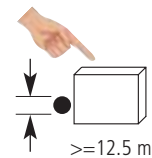
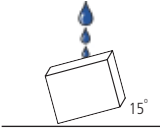
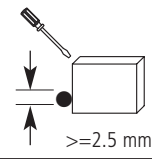
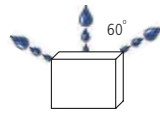
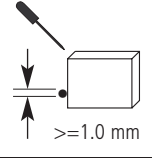
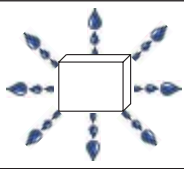
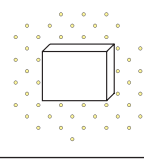
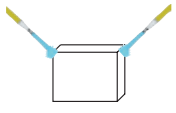
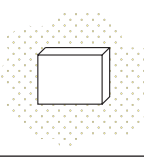
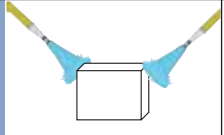
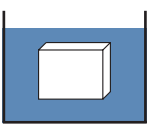
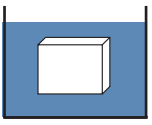
A coding system is defined by BS EN 60529 for the classification of degrees of protection provided by enclosures of electrical equipment against solid objects and water. This coding comprises the letters 'IP' followed by a two digit code as follows:-

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.

Lined area for notes, consisting of 20 horizontal light blue bars.

Technical literature covering the following products is available from www.krausnaimer.co.uk

	Catalogue Number
<p>Switch Disconnecter Catalogue This catalogue contains the most popular Kraus & Naimer Blue Line switches including our range of off - on switch disconnectors, main/emergency-off switches, main switches and changeover switches.</p>	SD006
<p>Control Switch The Catalogue contains the most popular Kraus & Naimer Blue Line rotary cam switches including OFF/ON switches, Changeover switches and Step switches, together with Push Buttons and Pilot Lights.</p>	CS001
<p>C, CA and CAD Switches 10 A - 315 A and L Switches 350 A - 2400 A C,CA and CAD switches are designed for universal application. They are recommended for instrument, isolater, double-throw and motor control. L switches are designed for load and off-load applications. They are used to switch resistive or low inductive loads.</p>	100
<p>Optional Extras and Enclosures The complete product line, a large number of optional extras is available, including door interlocks, push-pull devices, cylinder and padlock attachments, control and indicator devices, AC motor drives, as well as enclosures, both insulated and metal.</p>	101
<p>A and AD Switches 6 A - 25 A A and AD switches have 4 contacts in each switching stage. These switches provide an extensive range of switch functions and require a minimum mounting depth. Up to 36 switching positions are possible, with availability of 48 contacts per 12 stage switch column.</p>	110
<p>CG, CH and CHR Switches 10 A - 25 A Ultra compact CG, CH and CHR switches are ideally suited for control and instrumentation applications. CG switch terminals are "finger-proof", according to VDE 0106. Terminals are conveniently accessible for wiring and are delivered open. All CG4 switches offer specially designed gold plated contacts or H-bridges with "cross-wire" contact systems, which facilitate their use in electronic circuitry and chemically aggressive environments.</p>	120
<p>DH, DHR, DK and DKR Switches 6 A - 16 A DH, DHR,DK and DKR switches incorporate unique corrosion resistant contacts that permit operation on system voltage as low as 30 mV. They have fully enclosed and protected contacts which can be operated either by rotary and/or lateral handle movement. D switches are used in calibration and semiconductor circuits. They are also used for relay and contactor control.</p>	130
<p>X Switches 80 A - 630 A X switches can be applied for load, tap and gang switching duties. They incorporate 6 contacts in each switching stage. Their compact design provides a minimum length dimension for mounting purposes.</p>	140
<p>KG Switches 20 A - 315 A and KH and KHR Switches 16 A - 80 A KG, KH and KHR switches are excellent circuit interruptors. They have high through fault and fault making capacities and are especially designed for use as isolators and safety switches for machine tools, distribution panels and switchboards. KG ON/OFF switches offer unusually high dimensioned air and creepage distances between terminals which are designed for time saving "straight-line" wiring. ON/OFF switches are available with up to 8 poles and double-throw switches are available with up to 4 poles.</p>	150
<p>Contactors 16 A - 115 A and Motor Starters 1,1 kW - 55 kW These include control relays, motor contactors, two and four pole output contactors, heating contactors, thermal overload relays.</p>	200

We reserve the right to make technical and dimensional changes without prior notice.

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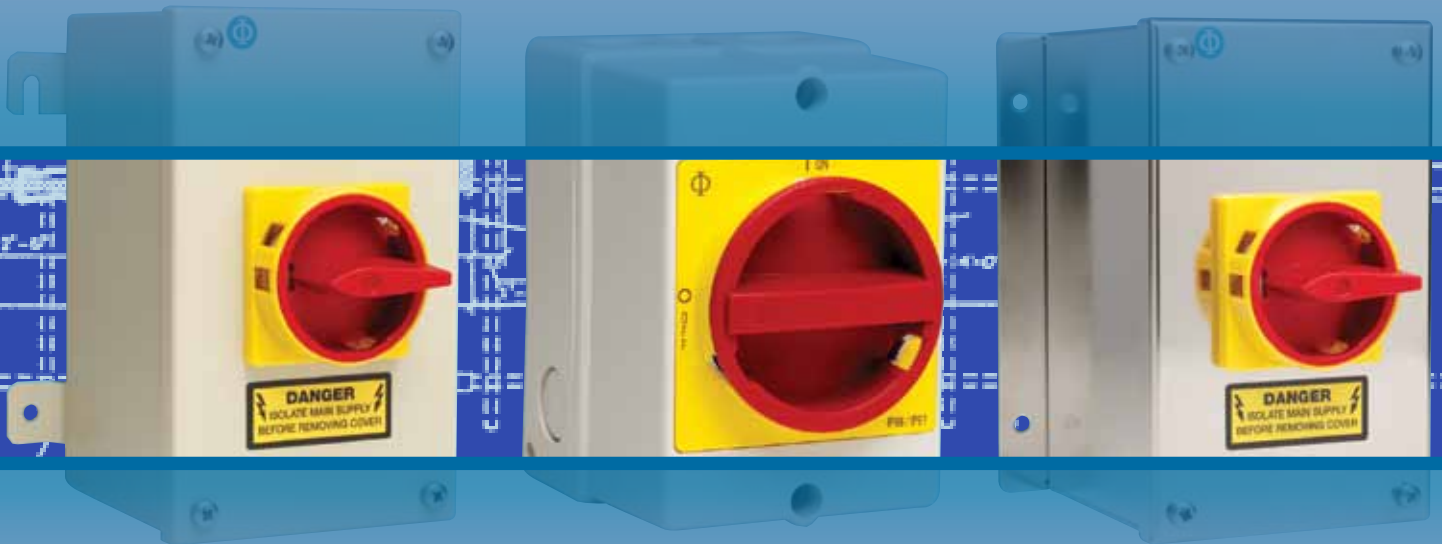


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