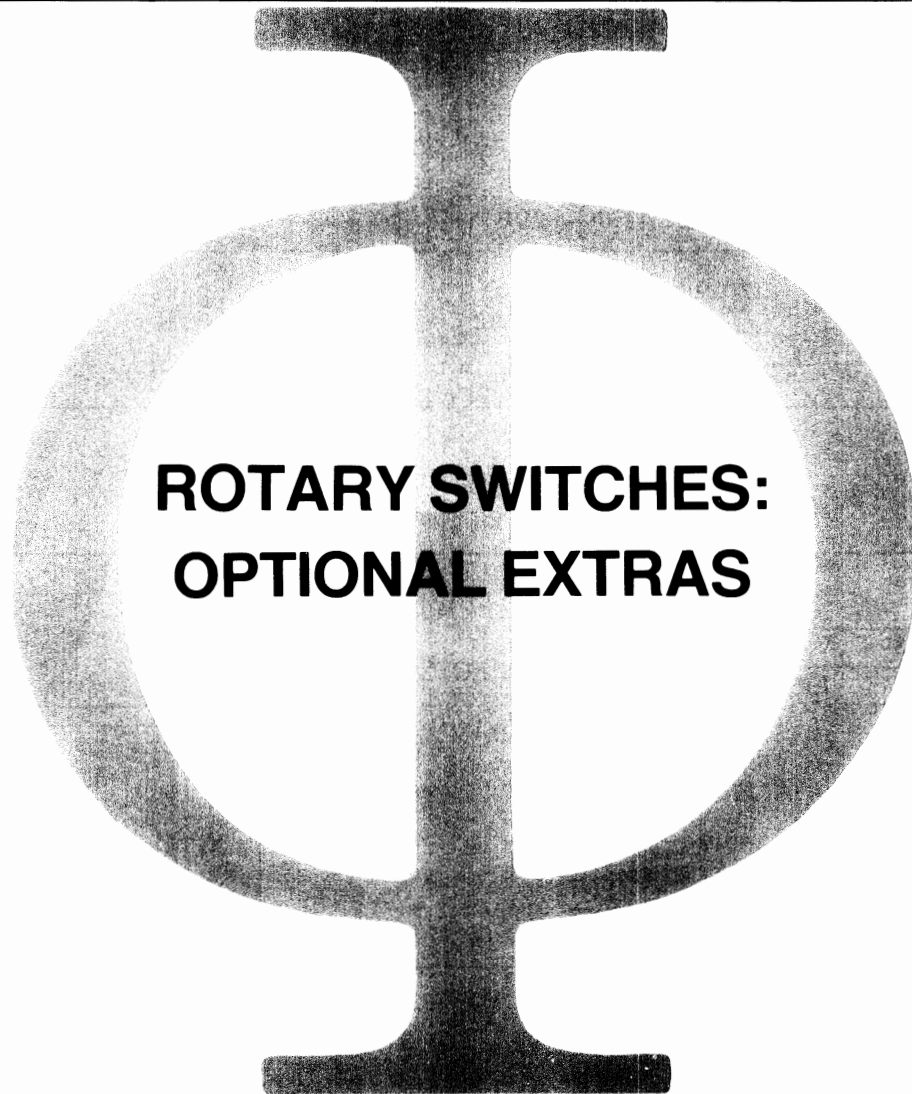
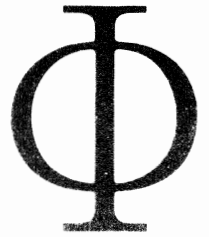


6 MAY 1985

KRAUS & NAIMER
BLUE LINE SWITCHGEAR

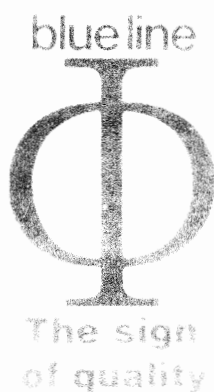


**ROTARY SWITCHES:
OPTIONAL EXTRAS**

The sign of quality

INSIDE: More Competitive Pricing

January 1985
No. 30

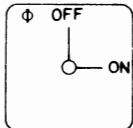


**DON'T START
WITHOUT US**

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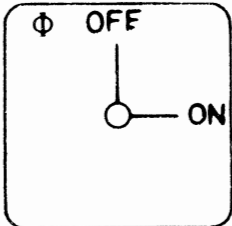
new zealand solenoid co limited
K & N BLUE LINE ROTARY CAM SWITCHES

OFF — ON SINGLE POLE PANEL MOUNT

AMPS ¹⁾			CODE NUMBER	ESCUTCHEON PLATE	PRICE
20			C10 A290 — 621 E		22.40
25			C17 A290 — 621 E		30.40
32			C26 A290 — 621 E		48.40
40			C32 A290 — 621 E		69.40

OFF — ON SINGLE POLE WEATHERPROOF NYLON BOX (IP65)³⁾

20			C10 A290 — 621 PF		32.70
25			C17 A290 — 621 PF		53.30
32			C26 A290 — 621 PF		69.20
40			C32 A290 — 621 PF		103.00

AMPS AC21	AC3 ² · 415V		OFF — ON TRIPLE POLE PANEL MOUNT		
	KW	HP			
20	5.5	7.5	C10 A292 — 621 E		32.20
25	7.5	10	C17 A292 — 621 E		45.20
32	11	15	C26 A292 — 621 E		68.90
40	15	20	C32 A292 — 621 E		98.90
63	18.5	25	C42 A292 — 621 E		113.70
100	30	40	C80 A292 — 621 E		156.60
160	37	50	C125 A292 — 621 E		265.40
315	55	75	C250 A292 — 621 E		454.40

OFF — ON TRIPLE POLE WEATHERPROOF NYLON BOX (IP65)³⁾

20	5.5	7.5	C10 A292 — 621 PF		43.20
25	7	10	C17 A292 — 621 PF		68.10
32	11	15	C26 A292 — 621 PF		89.70
40	15	20	C32 A292 — 621 PF		143.70
63	18.5	25	C42 A292 — 621 PF		158.50

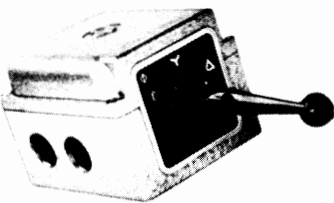
Prices quoted include handles and standard engraved escutcheon plates. All switch escutcheons can be engraved with additional information at an extra charge.

1) AC21 — IEC, BS. 2) AC3 415V — Squirrel cage motor, starting, switching off during running. 3) IP65 — Refer Page 4.

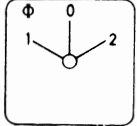
LARGER SIZE SWITCHES ARE AVAILABLE EITHER PANEL MOUNT, OR ENCLOSED, ON REQUEST
NON STANDARD ENCLOSURES ALSO AVAILABLE

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K & N BLUE LINE ROTARY CAM SWITCHES

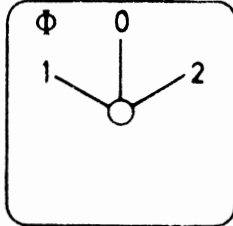
OFF — ON TRIPLE POLE ALUMINIUM ENCLOSURE. (IP54)³⁾

AMPS ¹⁾	AC3 ²⁾ 415 V		CODE NUMBER	DESCRIPTION	PRICE
	KW	HP			
20	5.5	7.5	C10 A292 — 621 GK		72.50
25	7.5	10	C17 A292 — 621 GK		98.00
32	11	13	C26 A292 — 621 GK		132.90
40	15	20	C32 A292 — 621 GK		162.90
63	18.5	25	C42 A292 — 621 GK		257.00
100	30	40	C80 A292 — 621 GK		284.20
160	37	50	C125 A292 — 621 GK		511.20

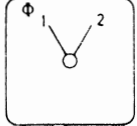
CHANGE OVER WITH OFF, SINGLE POLE, PANEL MOUNT

20			C10 A210 — 600 E		26.40
25			C17 A210 — 600 E		35.40
32			C26 A210 — 600 E		55.10
40			C32 A210 — 600 E		78.80

CHANGE OVER WITH OFF, TRIPLE POLE, PANEL MOUNT

20	5.5	7.5	C10 A212 — 600 E		46.10
25	7.5	10	C17 A212 — 600 E		64.50
32	11	13	C26 A212 — 600 E		96.30
40	15	20	C32 A212 — 600 E		137.90
63	18.5	25	C42 A212 — 600 E		161.20
100	30	40	C80 A212 — 600 E		240.30
160	37	50	C125 A212 — 600 E		399.20
315	55	75	C250 A212 — 600 E		674.80

CHANGE OVER WITHOUT OFF, SINGLE POLE, PANEL MOUNT

20			C10 A220 — 600 E		26.40
25			C17 A220 — 600 E		35.40
32			C26 A220 — 600 E		55.10
40			C32 A220 — 600 E		78.80

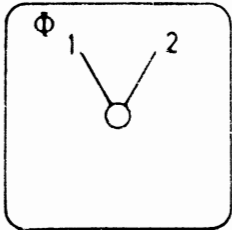
Prices quoted include handles and standard engraved escutcheon plates. All switch escutcheons can be engraved with additional information at an extra charge.

1) AC21 — IEC, BS. 2) AC3 415V — Squirrel cage motor, starting, switching off during running. 3) IP 54 — Refer Page 4

LARGER SIZE SWITCHES ARE AVAILABLE EITHER PANEL MOUNT, OR ENCLOSED, ON REQUEST.

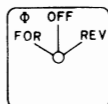
new zealand solenoid co limited
K & N BLUE LINE ROTARY CAM SWITCHES

CHANGE OVER WITHOUT OFF, PANEL MOUNT TRIPLE POLE

AMPS ¹⁾ Ith2	AC3 ²⁾ 415 V		CODE NUMBER	ESCUTCHEON PLATE	PRICE
	KW	HP			
20	3	4	C10 A222 — 600 E		46.10
25	7.5	10	C17 A222 — 600 E		64.50
32	11	15	C26 A222 — 600 E		96.30
40	15	20	C32 A222 — 600 E		137.90
63	18.5	25	C42 A222 — 600 E		161.20
100	30	40	C80 A222 — 600 E		240.30
160	37	50	C125 A222 — 600 E		399.20
315	55	75	C250 A222 — 600 E		674.80

MOTOR CONTROL SWITCHES
2 SPEED SINGLE WINDING PANEL MOUNT

20	5.5	7.5	C10 A441 — 600 E		55.50
25	7.5	10	C17 A441 — 600 E		79.20

	AC4 ⁴⁾		3 PHASE REVERSING. PANEL MOUNT		
	KW	HP			
20	1.5	2	C10 A401 — 620 E		42.10
25	3	4	C17 A401 — 620 E		60.00
32	5.5	7.5	C26 A401 — 620 E		89.50

3 PHASE REVERSING WITH SPLASH PROOF ENCLOSURE (IP 44)³⁾

20	1.5	2	C10 A401 — 620 PN		49.30
25	3	4	C17 A401 — 620 PN		83.80
32	5.5	7.5	C26 A401 — 620 PN		111.20

SINGLE PHASE REVERSING SWITCH

20	.55	.75	C10 A622 — 600 E	PANEL Mount for-off-rev.	46.10
20	.55	.75	C10 A622 — 600 PN		53.30

MISCELLANEOUS MOTOR CONTROL SWS. PANEL MOUNT

20			C10 A176 — 600 E Spring return to centre		26.40
20			C10 A178 — 600 E Spring return from start to run		26.40

Prices quoted include handles and standard engraved escutcheon plates. All switch escutcheons can be engraved with additional information at an extra charge.

1) AC21 — IEC. BS. 2) AC3 415V — Squirrel cage motor, starting, switching off during running. 3) IP 44 — Refer Page 4

4) AC4 — Inching, plugging and reversing.

LARGER SIZE SWITCHES ARE AVAILABLE EITHER PANEL MOUNT, OR ENCLOSED, ON REQUEST.

new zealand solenoid co limited
K & N BLUE LINE ROTARY CAM SWITCHES

MANUAL STAR DELTA. PANEL MOUNT

AMPS lth2	AC3 415 V		CODE NUMBER	ESCUTCHEON PLATE	PRICE
	KW	HP			
20	7.5	10	C10 A410 — 600 E		55.50
25	10	15	C17 A410 — 600 E		79.20

VOLT METER SWITCHES. PANEL MOUNT

20			C10 A004 — 623 E	OFF, RY, YB, BR, Ph-Ph.	37.20
20			C10 A005 — 622 E	OFF RN, YN, BN, Ph-N	37.20
20			C10 A007 — 621 E	BR, YB, RY, OFF, RN, YN, BN, Ph-Ph, Ph-N	47.00

AMMETER SWITCHES. PANEL MOUNT

20			C10 A048 — 622 E	OFF, R, Y, B, C.T's only	48.40
20			C10 A038 — 621 E	OFF, R, Y, B.	64.00
25			C17 A038 — 621 E	CT OR DIRECT IN LINE	90.00
32			C26 A038 — 621 E	CT OR DIRECT IN LINE	132.10

Prices quoted include handles and standard engraved escutcheon plates. All switch escutcheons can be engraved with additional information at an extra charge.

1) AC21 — IEC. BS. 2) AC3 415V — Squirrel cage motor, starting, switching off during running.

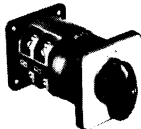
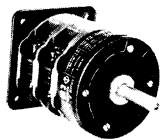
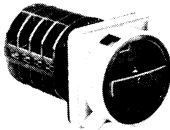
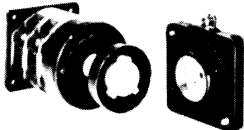
LARGER SIZE SWITCHES ARE AVAILABLE EITHER PANEL MOUNT, OR ENCLOSED, ON REQUEST.

CLASSIFICATION OF PROTECTION

- IP 44 Protection against contact with live or moving parts inside the enclosure by tools, wires, or objects of thickness greater than 1mm liquid splashed from any direction under stated conditions shall have no harmful effect.
- IP 54 Protection against harmful deposits of dust. The ingress of dust is not totally prevented, but dust cannot enter in an amount sufficient to interfere with satisfactory operation of the equipment enclosed. Liquid splashed from any direction under stated conditions shall have no harmful effect.
- IP 65 Complete protection against contact with live or moving parts inside the enclosure. Water projected by a nozzle from any direction under stated conditions shall have no harmful effect.

new zealand solenoid co limited
K & N BLUE LINE ROTARY CAM SWITCHES

K & N BLUE LINE
OPTIONAL ACCESSORIES

FOR SW TYPE	TYPE No.	NAME	DESCRIPTION	PRICE
C 10 — C 17 C 18 — C 42 C 43 — C 125 C 250 — L 2000	S0 VE S1 VE S2 VE S3 VE	Base Mounting		1.10 2.00 6.50 18.40
C 10 — C 17 C 18 — C 42 C 43 — C 125 C 250 — L 2000	S0 M004 S1 M004 S2 M004 S3 M004	Extension Shaft		6.30 8.50 11.40 28.20
C 10 — C 17 C 18 — C 42 C 43 — C 125 C 250 — L 2000	S0 V840 S1 V850 S2 V850 S3 V850	Padlock Device		1.30 29.10 38.10 56.00
C 10 — C 17 C 18 — C 42 C 43 — C 125 C 250 — L 2000	S0 V760 S1 V760 S2 V760 S3 V760	Cylinder Lock Programmeable		48.80 70.10 82.60 187.40
C 10 — C 17 C 18 — C 42	S0 V750 S1 V750	Key Operated		24.60 30.40
C 10 — C 17 C 18 — C 42 C 43 — C 125 C 250 — L 2000	S0 M280 D S1 M280 D S2 M280 D S3 M280 D	Door Clutch		17.70 26.60 37.80 51.50

Prices quoted include handles and standard engraved escutcheon plates. All switch escutcheons can be engraved with additional information at an extra charge.

The K & N Blue Line range of switches encompasses over 600 standard designs incorporating up to 144 contacts and 36 positions. However, if the switch needed is not covered here, or master catalogue 100, we will design it for you.

MANY MORE STANDARD SWITCHES AND OPTIONAL EXTRAS ARE AVAILABLE.
Refer Cat. 100 and Cat. 101

new zealand solenoid co limited
K & N BLUE LINE ROTARY CAM SWITCHES

TECHNICAL DATA

SELECTION DATA	C 10 C 11 C 12	C 17 C 18	C 26	C 32	C 42 C 43	C 80	C 125	C 250
Switching Capacity, Ith2 ¹⁾	12	20	30	45	55	80	125	240
Nominal Voltage IE/VDE/BS	660	660	660	660	660	660	660	660
Maximum Fuse Size for short circuit protection	20	25	50	63	80	125	200	315

RATINGS IN ACCORDANCE WITH IEC/BS AT 415 V 3 PHASE

AC 21 Resistive or non-inductive loads	A	16	20	25	32	40	80	125	250
AC 2 Slip Ring motor starting without plugging or inching	KW	5	9	15	18.5	30	45	55	95
AC 3 D.O.L. Motor starting, switching while running, star delta starting	KW	4	7.5	11	15	18.5	30	37	55
	HP	5	10	15	20	25	40	50	75
AC 4 D.O.L. Starting, inching, plugging and reversing	KW	1.5	3	5.5	6	7.5	12	15	22
	HP	2	5	10	15	20	25	30	40
Maximum Cable Size	MM ²	1.5	4	6	10	16	35	70	185

DC SWITCHING CAPACITY CHARTS:

No. of series contacts	1	2	3	4	5	6	8	
				Voltage V				
DC1 resistive loads T ≤ 1 ms	48	95	140	190	240	290	350	
	60	120	180	240	300	360	450	
	110	220	330	440	550	660	-	A
	220	440	660	-	-	-	-	
	440	660	-	-	-	-	-	
Inductive loads T = 50 ms	24	48	72	96	120	144	190	
	30	60	90	120	150	180	240	
	48	95	140	190	240	290	350	A
	60	120	180	240	300	360	450	
	110	220	330	440	550	660	-	

NOMINAL CURRENT								
C10								
C10B								
C11	C17							
C12	C18	C26S	C32S	C42S	C80	C125	C250	
12	20	32	40	63	100	160	250	
3,8	6	23	27	30	-	-	-	
0,85	1,3	6,5	-	-	-	-	-	
0,35	0,4	1,2	-	-	-	-	-	
0,27	0,27	0,4	-	-	-	-	-	
12	20	32	40	63	100	160	250	
5	9	25	30	40	33	50	70	
2	3	16	20	30	-	-	-	
0,8	1,3	11	15	18	-	-	-	
0,35	0,45	3,2	3,5	5	-	-	-	

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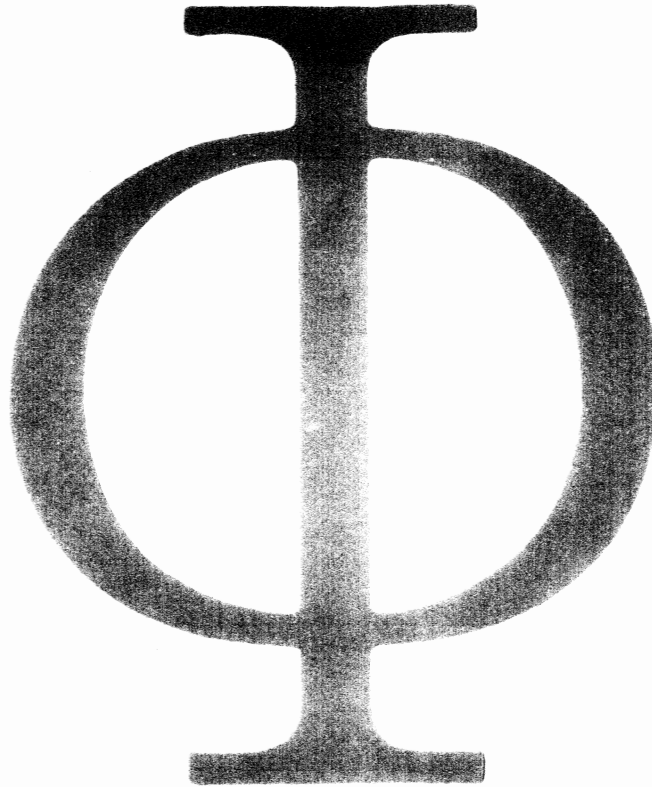
1) Ith2 — Continuous Current. Resistive.

LARGER SIZE SWITCHES ARE AVAILABLE EITHER PANEL MOUNT, OR ENCLOSED, ON REQUEST.

THE TRADE PRICES IN THIS LIST ARE SUGGESTIONS ONLY

KRAUS & NAIMER

blue line



The sign of quality

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P.O. Box 15-009 Telex: 3943 Cables: NEWSOL

AUCKLAND: 26-28 Kalmia St; Telephone 593-940/594-427
P.O. Box 11-262 Telex: 21894

CHRISTCHURCH: 366 Montreal St; Telephone: 66-365
P.O. Box 2405 Telex: 4503

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WITHOUT US**