ASN SWITCHGEAR

STAY SWITCHED ON

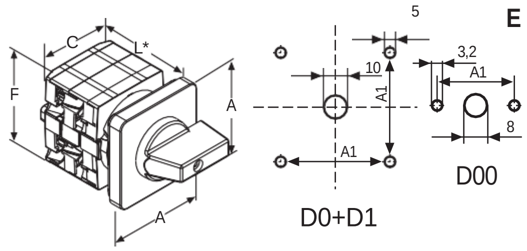
Tel: 03 8390 6790

sales@asn-switchgear.com.au

4/72 Makland Drive, Derrimut VIC 3026

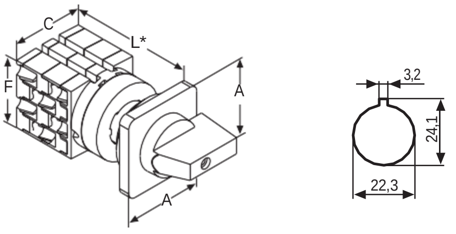
Other constructional forms and sizes
available on request

	I_{th} A	AC23 kW (3x400V)	AC3 kW	U V	Connection cross mm²
D00	10	3,0	2,2	500	1,5
D0	25	7,5	5,5	690	4
D1-16	25	9,0	7,5	690	6
D1-20	32	10,5	9,0	690	6
D1-32	45	15,0	11,0	690	6
D1-40	80	18,0	15,0	690	1Y
D2-63	100	26,5	22,0	690	70
D2-100	125	32,5	27,0	690	70
D2-160	160	40,0	37,0	690	70
D2-126	200	45,5	40,0	690	70
D3-250	315	76,0	64,0	690	185



E

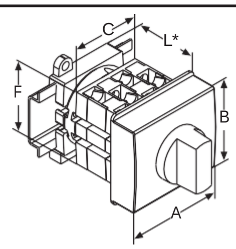
Type	A	A1	C	F	L1	L2	L3	L4	L5	L6	L7	L8
D00-4	30	20	28	30	29	37	45	53	61	69	77	85
D00-6	30	20	30	28	33	45	57	69	81	93	105	117
D0-13	48	36	43	43	32	41	51	60	70	79	89	98
D0-7	48	36	40	39	34	46	58	70	82	94	106	118
D0-8	48	36	40	39	34	46	58	70	82	94	106	118
D1-16	66	48	54	56	40	53	66	79	92	105	118	131
D1-20	66	48	54	56	40	53	66	79	92	105	118	131
D1-32	66	48	54	56	40	53	66	79	92	105	118	131
D1-40	66	48	68	64	50	71	92	113	134	155	176	197



ZM

IPY5

Type	A	C	F	L1	L2	L3	L4	L5	L6	L7	L8
D00-4	30	28	30	43	51	59	67	75	83	91	99
D00-6	30	30	28	46	58	70	82	94	106	118	130
D0-13	48	43	43	56	65	75	84	94	103	113	122
D0-7	48	40	43	58	70	82	94	106	118	130	142
D0-8	48	40	39	58	70	82	94	106	118	130	142
D1-16	66	54	56	60	73	86	99	112	125	138	151
D1-20	66	54	56	60	73	86	99	112	125	138	151
D1-32	66	54	56	60	73	86	99	112	125	138	151
D1-40	66	68	64	70	91	112	133	154	175	196	217



T

Type	A	B	C	F	L1	L2	L3
D00-6	35	45	28	30	45	45	45
D0-8	52,5	45	40	39	45	45	45
D1-16	52,5	45	54	56	45	45	56
D1-20	52,5	45	54	56	45	45	56
D1-32	52,5	45	54	56	45	45	56

25 Amps maintenance switch in IP67 enclosure

-integrated M20 threads for cable glands

2-poles

R2/13PLM-D0/Z33sw R2/13PLM-D0/Z33ry

3-poles

R3/13PLM-D0/Z33sw R3/13PLM-D0/Z33ry

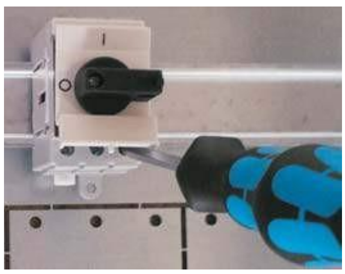
4-poles

R4/13PLM-D0/Z33sw R4/13PLM-D0/Z33ry

VDE 0660 IEC 60947 KEMA KEUR

45mm DIN-rail switch with flexible cover

-connection with handle and cover possible, only
2 modules are bold



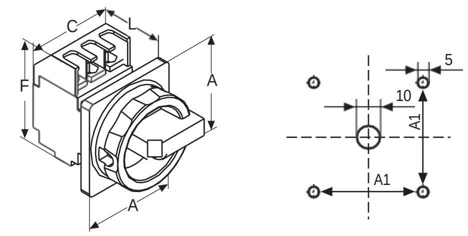
Type code (16 - 63 A)

xL01Y/xT/X74F xL020/xT/X74F xL025/xT/X74F
xL032/xT/X74F xL040/xT/X74F xL0Y3/xT/X74F

Other constructional forms and sizes on request

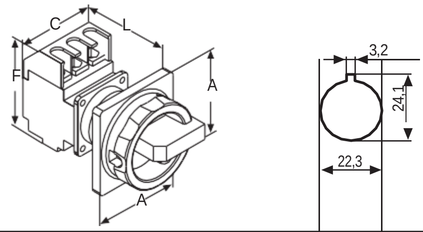
	I_{th} A	AC23 kW (3x400V)	AC3 kW (3x400V)	U V	Connection cross mm²
LT16	16	7,5	5,5	690	6
LT25A	25	9,5	7,5	690	6
LT32	32	11,5	9,5	690	16
LT40	40	20,0	11,0	690	16
LT63	63	22,0	18,5	690	35
LT80	80	30,0	22,0	690	35
LT100	100	37,0	30,0	690	50
LT125	125	45,0	37,0	690	50
LT180	180	90,0	75,0	690	185
LT250	250	132,0	110,0	690	185
H11	10			240	4

DC ratings, see flyer



E

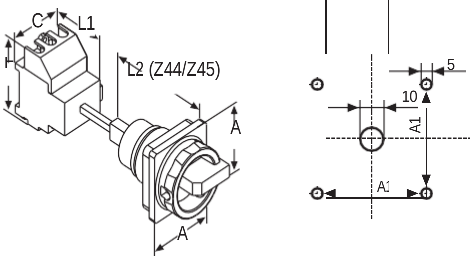
Type	A	A1	C 3pol	C 4pol	C 6pol	C 8pol	F	L
LT16-25A	66	48	48	48	/	/	62	50
LT32-40	66	48	45	61	91	122	72	50
ULT25-40	64	48	91	122	/	/	72	64
LT63-80	66	48	60	80	121	161	83	59
ULT63-80	64	48	121	161	/	/	83	74
LT100-125	66	48	70	93	141	187	96	75
ULT100-125	64	48	141	187	/	/	96	90
LT180-250	94	68	112	150	224	300	169	93
ULT180-250	94	68	224	300	/	/	169	110



ZM

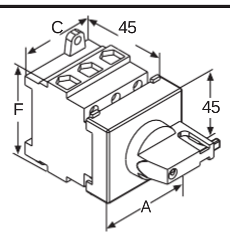
Type	A	C 3pol	C 4pol	F	L
LT16-25A	66	48	48	62	73
LT32-40	66	45	61	72	73
LT63-80	66	60	80	83	84

IPY5



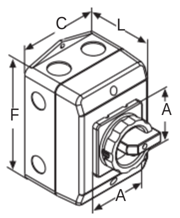
V

Type	A	A1	C 3pol	C 4pol	C 6pol	C 8pol	F	L1	L2 Z44/45
LT16-25A	66	48	48	48	/	/	62	50	80
LT32-40	66	48	45	61	91	122	72	50	80
ULT25-40	64	48	91	122	/	/	72	64	80
LT63-80	66	48	60	80	121	161	83	59	80
ULT63-80	64	48	121	161	/	/	83	74	80
LT100-125	66	48	70	93	141	187	96	75	80
ULT100-125	64	48	141	187	/	/	96	90	80
LT180-250	94	68	112	150	224	300	169	93	47
ULT180-250	94	68	224	300	/	/	148	110	47



T

Type	A 3pol	A 4pol	A 6pol	A 8pol	F	C 3pol	C 4pol	C 6pol	C 8pol
LT16-25A	52,5	52,5	52,5	/	50	48	48		/
LT32-40	52,5	65	98	98	55	45	61	91	122
ULT25-40	98	98	/	/	55	91	122	/	/
LT63-80	63	83	125	125	64	60	80	121	161
ULT63-80	125	125	/	/	64	121	161	/	/
LT100-125	70	93	140	140	83	70	93	141	187
ULT100-125	140	140	/	/	83	141	187	/	/



Enclosures

Type	A	C	F	L	Knockouts
PM-D1/Z33	YY	100	140	81	4 x M25, 4 x M20
PM-D2/Z33	YY	14Y	17Y	104	4 x M32/40, 4 x M20
PM-D3/Z33	90	302	212	137	4 x M50/Y3, Y x M20
K4/Z33	90	373	373	230	2 x M40/Y3, 2 x M32/50, 4 x M25/40

IPY5

Sheet metal enclosures and EMC accessories on request

DNV

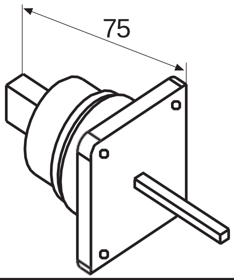
Door couplings for base-mounted cam and onload switches

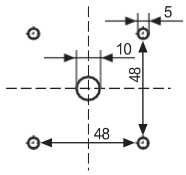
Available for group, design

Defeasible door coupling Z39

The coupling interlocks the door in the ON position, but it is easy to unlock by pushing a small bar. The padlockable handle is included.

D0	D1		
V	V		
LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125
V	V	V	V

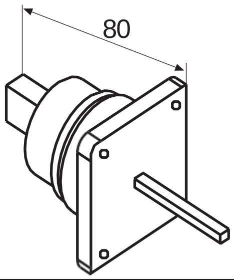


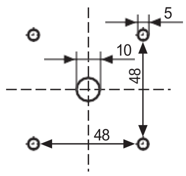


Door coupling with compensation and without interlock

This door coupling has a compensation. No interlock in any position.

D0	D1	D2	
V	V	V	
LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125
V	V	V	V

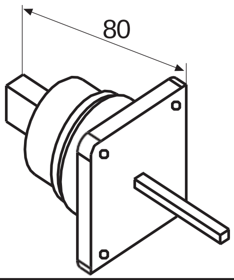


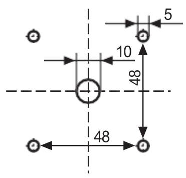


Door coupling with compensation and with interlock

This door coupling has a compensation. Interlock in every position except the OFF-position.

D0	D1	D2	
V	V	V	
LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125
V	V	V	V

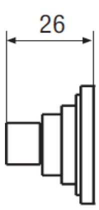




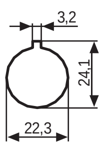
Short Door coupling with interlock

This short door coupling fits best for very small depths in terms of space available. IP65

D0	D1		
V	V		
LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125
V	V	V	V



Inside panel



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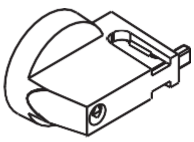
Possibilities for locking switches

Available for group, design.

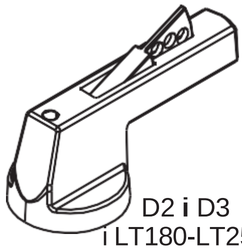
Padlockable handle (Z20)

D00 has a thickness of 5mm and is suitable for one padlock. D0 has a thickness of 6mm and is suitable for two padlocks. D1/D2/D3 has a thickness of 6mm and is suitable for three padlocks.


D00


D0
i LT1Y-125


D1
i LT1Y-125


D2 **i** D3
i LT180-LT250

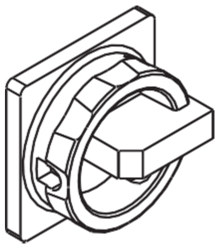
D00	D0	D1	D2	D3
E	E		E	E
ZM	ZM	ZM		
	V	V	V	V
	T	T		

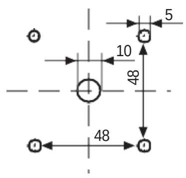
enclosures

LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125	LT180 -LT250
E	E	E	E	E
ZM	ZM	ZM		
V	V	V	V	V
T	T	T	T	

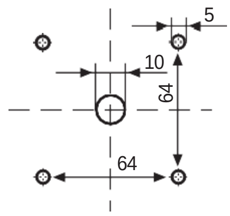
Round Padlockable handle (Z33)

Can lock with a maximum of three padlocks and has a thickness of 6mm in D1 and of 8mm in D2.





D0 **i** D1
i LT1Y-LT125



D2

D0	D1	D2
E	E	E
ZM	ZM	ZM
V	V	V

enclosures

LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125
E	E	E	E
ZM	ZM	ZM	
V	V	V	V

Protection IP65 seal systems (Z1)

Adding a (Z1) makes the device IP65 protected. IP65 protection is for constructional forms ZM, PLM and PM standard.

IP65

Higher protection classes and other constructional formations upon request.

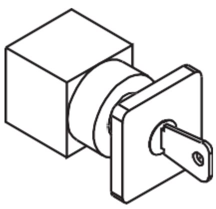
D00	D0	D1	D2	D3
E	E	E	E	E
ZM	ZM	ZM		
	V	V	V	V

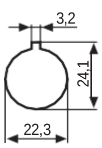
enclosures

LT16 -25A	LT25 -LT40	LT63 -LT80	LT100 -LT125	LT180 -LT250
E	E	E	E	E
ZM	ZM	ZM		
V	V	V	V	V

Key-operated switch

A key operates this switch. You can choose where the key is removable.

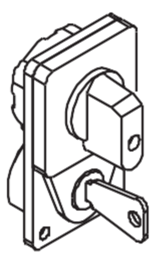


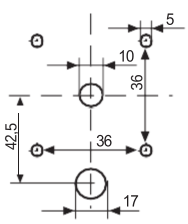


D00	D0	D1
ZM	ZM	ZM

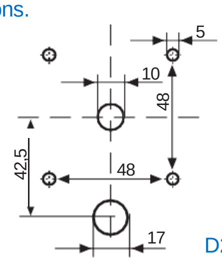
Cylinderical lock (Z31)

A cylinder lock allows locking in specific positions or all positions.





D0



D1

D2 & D3 on request

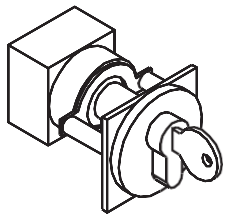
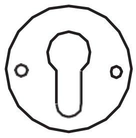
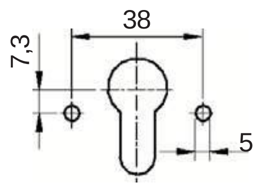
D0	D1	D2	D3
E	E	E	E

Various Accessories

Available for group, design.

Key operated device for DIN standard cylinder lock (Z70)

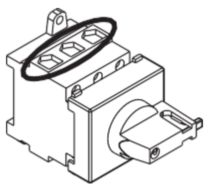
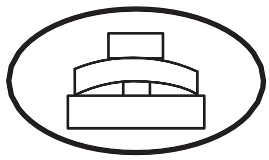
Allows integration into locking system. Cylinder not supplied.

D0/8
E

Terminal for control circuits (Z58):

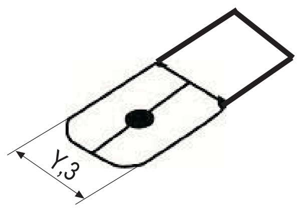
This item allows connecting a 4mm squared wire for a control circuit to a load circuit.

LT25 -LT40	LT63 -LT80	LT100 -LT125	LT180 -LT250

Fast On connections (Z6):

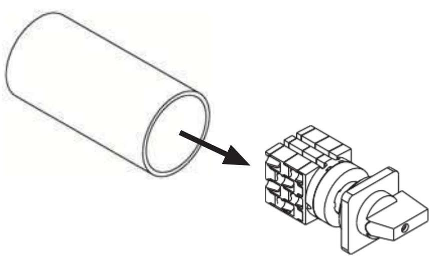
For connection leads with sockets according to DIN 467247.



D0	D1
E ZM V T	E ZM V T

Full Terminal Shroud (Z10):

This cover acts to ensure switch protection to IP42 for the whole switch body.



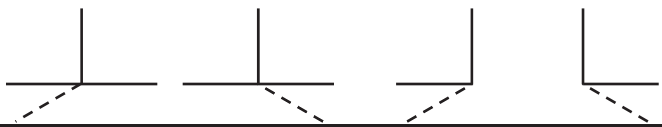
D0	D1	D2
E ZM	E	E

Dual sided and single sided spring return (Z55):

The returning positions are 30 degrees angle and the fixed ones are 90 degree angles.

Z55:

Z54:



D0	D1	D2	D3
E ZM V T	E ZM V T	E V	E V

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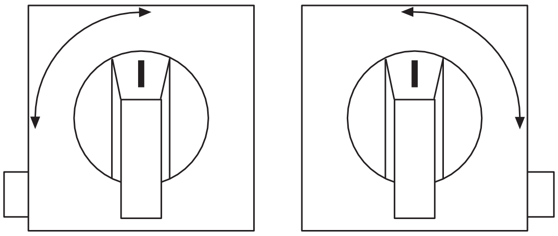
Various Accessories

Available for group, design.

Interlock Z80:

Prevents reversing by mistake.

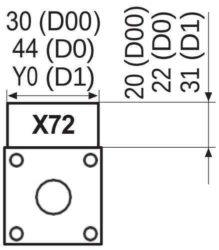


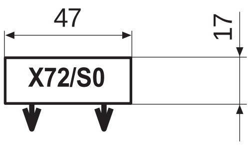
Different handles / padlockable devices fit

	D1
Z80	E

Additional Frontplates (X72) and (X72/SO)

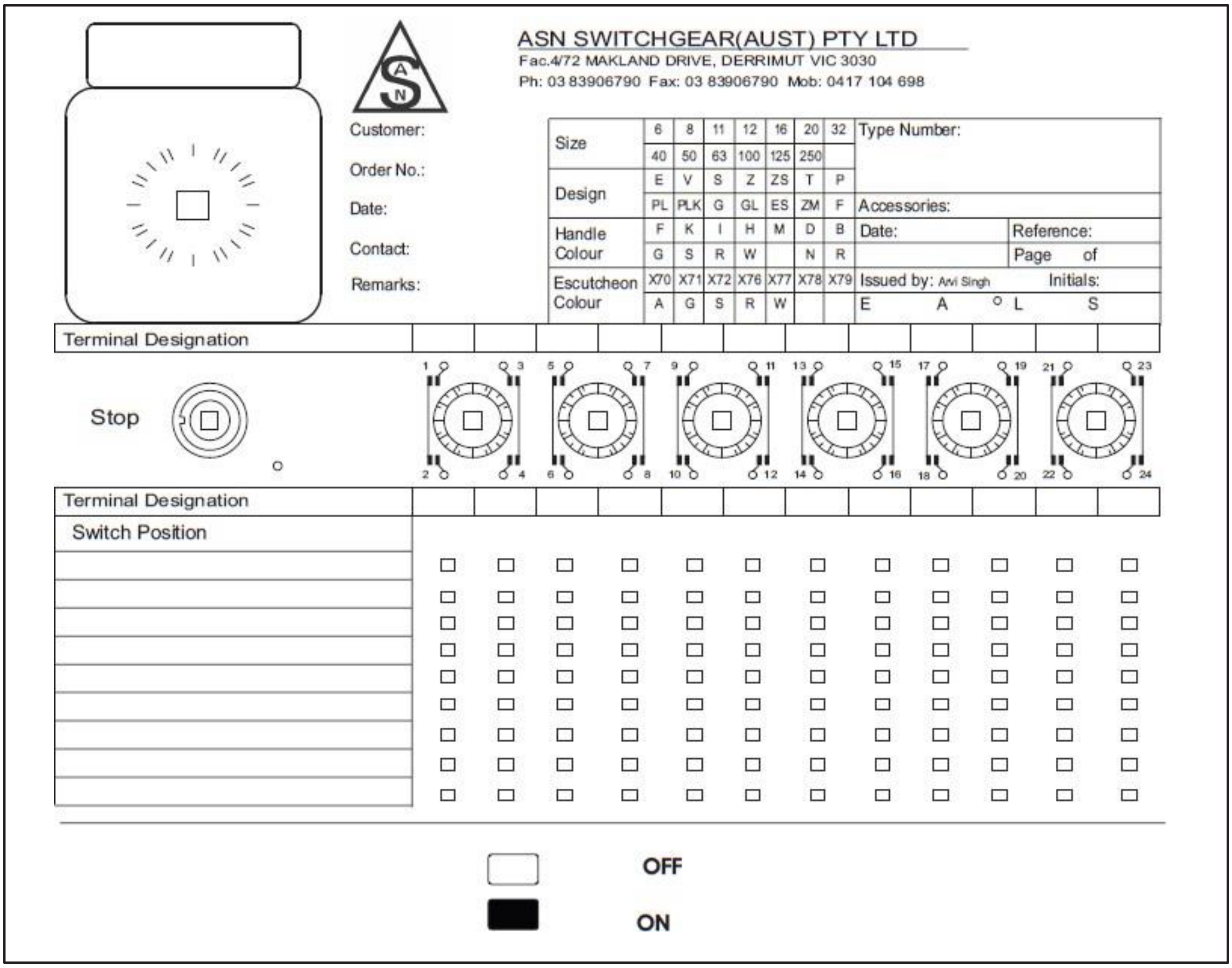
Additional frontplates allow for more writing.



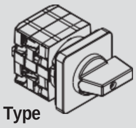
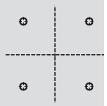
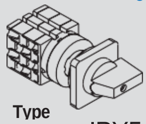
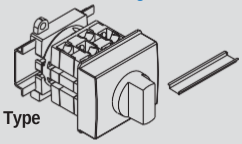
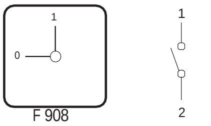
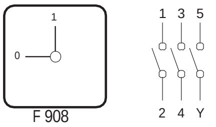
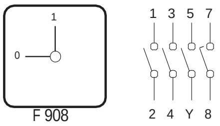
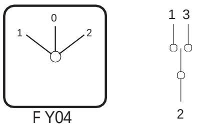
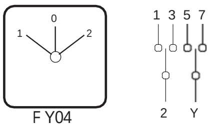
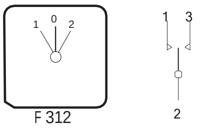
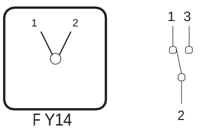
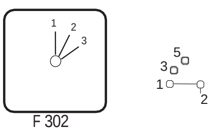
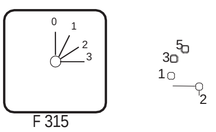


	D0	D1	D2	D3
X72	E ZM V T	E ZM V T	E V	E V
X72/S0		Z33	Z33	

Contact Diagram

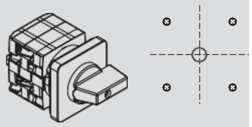
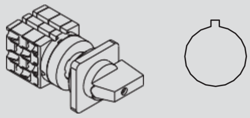
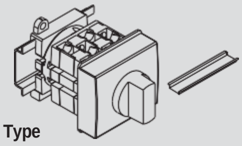


Rotary Cam Switches

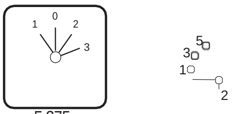
Connection Diagram	I_{th}	AC3	4-Hole mounting Type  	Central mounting Type IPY5  	DIN-Railmounting Type 
90˚ Off/On Switch	10	2,2	A1/ 4 E	A1/ 4 ZM	
	10	2,2	A1/ Y E	A1/ Y ZM	A1/ Y T
1-pole	25	5,5	A1/ 7 E	A1/ 7 ZM	
	25	5,5	A1/ 8 E	A1/ 8 ZM	A1/ 8 T
	25	7,5	A1/ 1Y E	A1/ 1Y ZM	A1/ 1Y T
F 908	32	9,0	A1/ 20 E	A1/ 20 ZM	A1/ 20 T
1Ka-A1001	45	11,0	A1/ 32 E	A1/ 32 ZM	A1/ 32 T
90˚ Off/On Switch	10	2,2	A3/ 4 E	A3/ 4 ZM	
	10	2,2	A3/ Y E	A3/ Y ZM	A3/ Y T
3-pole	25	5,5	A3/ 7 E	A3/ 7 ZM	
	25	5,5	A3/ 8 E	A3/ 8 ZM	A3/ 8 T
	25	7,5	A3/ 1Y E	A3/ 1Y ZM	A3/ 1Y T
F 908	32	9,0	A3/ 20 E	A3/ 20 ZM	A3/ 20 T
2Ka-A1003	45	11,0	A3/ 32 E	A3/ 32 ZM	A3/ 32 T5
90˚ Off/On Switch	10	2,2	A4/ 4 E	A4/ 4 ZM	
	10	2,2	A4/ Y E	A4/ Y ZM	A4/ Y T
4-pole	25	5,5	A4/ 7 E	A4/ 7 ZM	
	25	5,5	A4/ 8 E	A4/ 8 ZM	A4/ 8 T
	25	7,5	A4/ 1Y E	A4/ 1Y ZM	A4/ 1Y T
F 908	32	9,0	A4/ 20 E	A4/ 20 ZM	A4/ 20 T
2Ka-A1004	45	11,0	A4/ 32 E	A4/ 32 ZM	A4/ 32 T
60˚ Change-over Switch	10	2,2	U1/ 4 E	U1/ 4 ZM	
	10	2,2	U1/ Y E	U1/ Y ZM	U1/ Y T
1-pole	25	5,5	U1/ 7 E	U1/ 7 ZM	
	25	5,5	U1/ 8 E	U1/ 8 ZM	U1/ 8 T
	25	7,5	U1/ 1Y E	U1/ 1Y ZM	U1/ 1Y T
F Y04	32	9,0	U1/ 20 E	U1/ 20 ZM	U1/ 20 T
1Ka-A1009	45	11,0	U1/ 32 E	U1/ 32 ZM	U1/ 32 T
60˚ Change-over Switch	10	2,2	U2/ 4 E	U2/ 4 ZM	
	10	2,2	U2/ Y E	U2/ Y ZM	U2/ Y T
2-pole	25	5,5	U2/ 7 E	U2/ 7 ZM	
	25	5,5	U2/ 8 E	U2/ 8 ZM	U2/ 8 T
	25	7,5	U2/ 1Y E	U2/ 1Y ZM	U2/ 1Y T
F Y04	32	9,0	U2/ 20 E	U2/ 20 ZM	U2/ 20 T
2Ka-A1010	45	11,0	U2/ 32 E	U2/ 32 ZM	U2/ 32 T
Change over swith with double sided return	10	2,2	URR1/ 4 E	URR1/ 4 ZM	
	10	2,2	URR1/ Y E	URR1/ Y ZM	URR1/ Y T
1-pole	25	5,5	URR1/ 7 E	URR1/ 7 ZM	
	25	5,5	URR1/ 8 E	URR1/ 8 ZM	URR1/ 8 T
	25	7,5	URR1/ 1Y E	URR1/ 1Y ZM	URR1/ 1Y T
F 312	32	9,0	URR1/ 20 E	URR1/ 20 ZM	URR1/ 20 T
2Ka-A1234	45	11,0	URR1/ 32 E	URR1/ 32 ZM	URR1/ 32 T
60˚ Change-over Switch	10	2,2	WS1/ 4 E	WS1/ 4 ZM	
	10	2,2	WS1/ Y E	WS1/ Y ZM	WS1/ Y T
1-pole	25	5,5	WS1/ 7 E	WS1/ 7 ZM	
	25	5,5	WS1/ 8 E	WS1/ 8 ZM	WS1/ 8 T
	25	7,5	WS1/ 1Y E	WS1/ 1Y ZM	WS1/ 1Y T
F Y14	32	9,0	WS1/ 20 E	WS1/ 20 ZM	WS1/ 20 T
1Ka-A1017	45	11,0	WS1/ 32 E	WS1/ 32 ZM	WS1/ 32 T
Step Switch, 3 positions	10	2,2	ST31/ 4 E	ST31/ 4 ZM	
	10	2,2	ST31/ Y E	ST31/ Y ZM	ST31/ Y T
1-pole	25	5,5	ST31/ 7 E	ST31/ 7 ZM	
	25	5,5	ST31/ 8 E	ST31/ 8 ZM	ST31/ 8 T
	25	7,5	ST31/ 1Y E	ST31/ 1Y ZM	ST31/ 1Y T
F 302	32	9,0	ST31/ 20 E	ST31/ 20 ZM	ST31/ 20 T
2Ka-A1131	45	11,0	ST31/ 32 E	ST31/ 32 ZM	ST31/ 32 T
Step Switch, 3 positions + Off Position	10	2,2	ST031/ 4 E	ST031/ 4 ZM	
	10	2,2	ST031/ Y E	ST031/ Y ZM	ST031/ Y T
1-pole	25	5,5	ST031/ 7 E	ST031/ 7 ZM	
	25	5,5	ST031/ 8 E	ST031/ 8 ZM	ST031/ 8 T
	25	7,5	ST031/ 1Y E	ST031/ 1Y ZM	ST031/ 1Y T
F 315	32	9,0	ST031/ 20 E	ST031/ 20 ZM	ST031/ 20 T
2Ka-A1142	45	11,0	ST031/ 32 E	ST031/ 32 ZM	ST031/ 32 T

ASN SWITCHGEAR
STAY SWITCHED ON

Connection Diagram

	I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
			 Type	 Type IPY5	 Type

Step Switch, 3 positions + Off Position



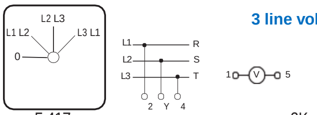
1-pole

F 375 2Ka-A1142a

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	ST031/ 4 E/F375	ST031/ 4 ZM/F375	
10	2,2	ST031/ Y E/F375	ST031/ Y ZM/F375	ST03/ Y T/F375
25	5,5	ST031/ 7 E/F375	ST031/ 7 ZM/F375	
25	5,5	ST031/ 8 E/F375	ST031/ 8 ZM/F375	ST031/ 8 T/F375
25	7,5	ST031/ 1Y E/F375	ST031/ 1Y ZM/F375	ST031/ 1Y T/F375
32	9,0	ST031/ 20 E/F375	ST031/ 20 ZM/F375	ST031/ 20 T/F375
45	11,0	ST031/ 32 E/F375	ST031/ 32 ZM/F375	ST031/ 32 T/F375

Voltmeter change-over switch

3 line voltage

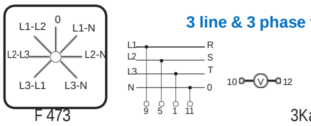


F 417 2Ka-A108Y

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	V3/ 4 E	V3/ 4 ZM	
10	2,2	V3/ Y E	V3/ Y ZM	V3/ Y T
25	5,5	V3/ 7 E	V3/ 7 ZM	
25	5,5	V3/ 8 E	V3/ 8 ZM	V3/ 8 T
25	7,5	V3/ 1Y E	V3/ 1Y ZM	

Voltmeter change-over switch

3 line & 3 phase voltage

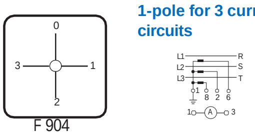


F 473 3Ka-A1088

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	V30/ 4 E	V30/ 4 ZM	
10	2,2	V30/ Y E	V30/ Y ZM	V30/ Y T
25	5,5	V30/ 7 E	V30/ 7 ZM	
25	5,5	V30/ 8 E	V30/ 8 ZM	V30/ 8 T
25	7,5	V30/ 1Y E	V30/ 1Y ZM	

Ammeter change-over switch

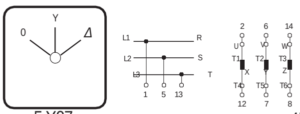
1-pole for 3 current changer circuits



F 904 3Ka-A1092

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	AU31/ 4 E	AU31/ 4 ZM	
10	2,2	AU31/ Y E	AU31/ Y ZM	AU31/ Y T
25	5,5	AU31/ 7 E	AU31/ 7 ZM	
25	5,5	AU31/ 8 E	AU31/ 8 ZM	AU31/ 8 T
25	7,5	AU31/ 1Y E	AU31/ 1Y ZM	

Star Delta switch, 1 direction

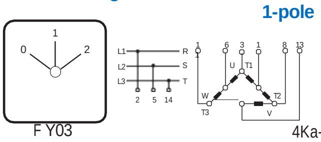


F Y07 4Ka-A1031

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	SD/ 4 E	SD/ 4 ZM	
10	2,2	SD/ Y E	SD/ Y ZM	
25	5,5	SD/ 7 E	SD/ 7 ZM	
25	5,5	SD/ 8 E	SD/ 8 ZM	
25	7,5	SD/ 1Y E	SD/ 1Y ZM	
32	9,0	SD/ 20 E	SD/ 20 ZM	
45	11,0	SD/ 32 E	SD/ 32 ZM	

Pole change switch

1-pole

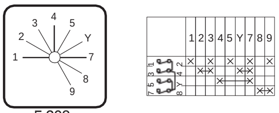


F Y03 4Ka-A1044

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	P12/ 4 E	P12/ 4 ZM	
10	2,2	P12/ Y E	P12/ Y ZM	
25	5,5	P12/ 7 E	P12/ 7 ZM	
25	5,5	P12/ 8 E	P12/ 8 ZM	
25	7,5	P12/ 1Y E	P12/ 1Y ZM	
32	9,0	P12/ 20 E	P12/ 20 ZM	
45	11,0	P12/ 32 E	P12/ 32 ZM	

Binary code switch

1-pole 1-9

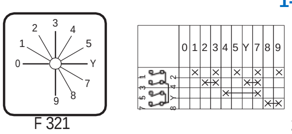


F 308 2Ka-A1410

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	BC9/ 4 E	BC9/ 4 ZM	
10	2,2	BC9/ Y E	BC9/ Y ZM	BC9/ Y T
25	5,5	BC9/ 7 E	BC9/ 7 ZM	
25	5,5	BC9/ 8 E	BC9/ 8 ZM	BC9/ 8 T

Binary code switch

1-pole 0-9

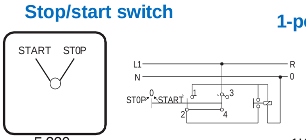


F 321 2Ka-A1413

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	BC09/ 4 E	BC09/ 4 ZM	
10	2,2	BC09/ Y E	BC09/ Y ZM	BC09/ Y T
25	5,5	BC09/ 7 E	BC09/ 7 ZM	
25	5,5	BC09/ 8 E	BC09/ 8 ZM	BC09/ 8 T

Stop/start switch

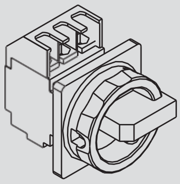
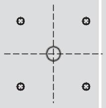
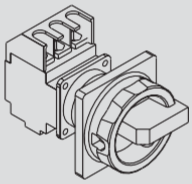
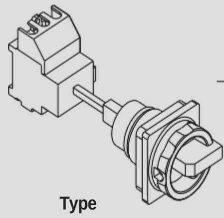
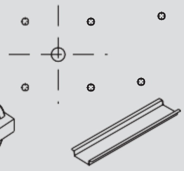
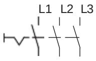
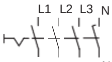
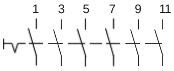
1-pole

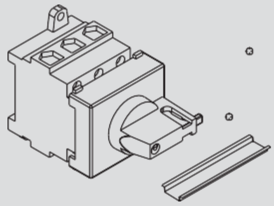
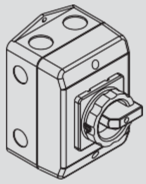


F 330 1Ka-A1103

I_{th}	AC3	4-Hole mounting	Central mounting	DIN-Railmounting
10	2,2	S A1/ 4 E	SEA1/ 4 ZM	
10	2,2	S A1/ Y E	SEA1/ Y ZM	SEA1/ Y T
25	5,5	S A1/ 7 E	SEA1/ 7 ZM	
25	5,5	S A1/ 8 E	SEA1/ 8 ZM	SEA1/ 8 T

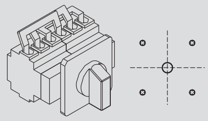
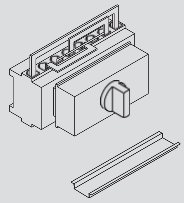
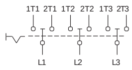
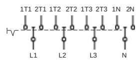
On Load Switches

Connection Diagram	TherGalratedcurrent (nA) th	AC3 Rated perf. at 3400V (in kW)	AC23 Rated perf. at 3400V (in KW)	4-Hole mounting   Type	Central mounting   Type IPY5	DIN-Railmounting   Type
3-pole	1Y	5,5	7,5	E NLT 1Y/ 3E/ Z33 HLT 1Y/ 3E/ Z33	ZM NLT 1Y/ 3ZM/ Z33 HLT 1Y/ 3ZM/ Z33	V NLT 1Y/ 3V/ Z33/ Z45 HLT 1Y/ 3V/ Z33/ Z45
	25	7,5	9,5	NLT 25A/ 3E/ Z33 HLT 25A/ 3E/ Z33	NLT 25A/ 3ZM/ Z33 HLT 25A/ 3ZM/ Z33	NLT 25A/ 3V/ Z33/ Z45 HLT 25A/ 3V/ Z33/ Z45
	32	9,5	11,5	NLT 32/ 3E/ Z33 HLT 32/ 3E/ Z33	NLT 32/ 3ZM/ Z33 HLT 32/ 3ZM/ Z33	NLT 32/ 3V/ Z33/ Z45 HLT 32/ 3V/ Z33/ Z45
	40	11,0	20,0	NLT 40/ 3E/ Z33 HLT 40/ 3E/ Z33	NLT 40/ 3ZM/ Z33 HLT 40/ 3ZM/ Z33	NLT 40/ 3V/ Z33/ Z45 HLT 40/ 3V/ Z33/ Z45
	Y3	18,5	22,5	NLT Y3/ 3E/ Z33 HLT Y3/ 3E/ Z33	NLT Y3/ 3ZM/ Z33 HLT Y3/ 3ZM/ Z33	NLT Y3/ 3V/ Z33/ Z45 HLT Y3/ 3V/ Z33/ Z45
	80	22,0	30,0	NLT 80/ 3E/ Z33 HLT 80/ 3E/ Z33	NLT 80/ 3ZM/ Z33 HLT 80/ 3ZM/ Z33	NLT 80/ 3V/ Z33/ Z45 HLT 80/ 3V/ Z33/ Z45
	100	30,0	37,0	NLT 100/ 3E/ Z33 HLT 100/ 3E/ Z33		NLT 100/ 3V/ Z33/ Z45 HLT 100/ 3V/ Z33/ Z45
	125	37,0	45,0	NLT 125/ 3E/ Z33 HLT 125/ 3E/ Z33		NLT 125/ 3V/ Z33/ Z45 HLT 125/ 3V/ Z33/ Z45
	180	75,0	90,5	NLT 180/ 3E/ Z20 HLT 180/ 3E/ Z20		NLT 180/ 3V/ Z20/ ZY5 HLT 180/ 3V/ Z20/ ZY5
	250	110,0	132,0	NLT 250/ 3E/ Z20 HLT 250/ 3E/ Z20		NLT 250/ 3V/ Z20/ ZY5 HLT 250/ 3V/ Z20/ ZY5
4-pole	1Y	5,5	7,5	E NLT 1Y/ 4E/ Z33 HLT 1Y/ 4E/ Z33	ZM NLT 1Y/ 4ZM/ Z33 HLT 1Y/ 4ZM/ Z33	V NLT 1Y/ 4V/ Z33/ Z45 HLT 1Y/ 4V/ Z33/ Z45
	25	7,5	9,5	NLT 25A/ 4E/ Z33 HLT 25A/ 4E/ Z33	NLT 25A/ 4ZM/ Z33 HLT 25A/ 4ZM/ Z33	NLT 25A/ 4V/ Z33/ Z45 HLT 25A/ 4V/ Z33/ Z45
	32	9,5	11,5	NLT 32/ 4E/ Z33 HLT 32/ 4E/ Z33	NLT 32/ 4ZM/ Z33 HLT 32/ 4ZM/ Z33	NLT 32/ 4V/ Z33/ Z45 HLT 32/ 4V/ Z33/ Z45
	40	11,0	20,0	NLT 40/ 4E/ Z33 HLT 40/ 4E/ Z33	NLT 40/ 4ZM/ Z33 HLT 40/ 4ZM/ Z33	NLT 40/ 4V/ Z33/ Z45 HLT 40/ 4V/ Z33/ Z45
	Y3	18,5	22,5	NLT Y3/ 4E/ Z33 HLT Y3/ 4E/ Z33	NLT Y3/ 4ZM/ Z33 HLT Y3/ 4ZM/ Z33	NLT Y3/ 4V/ Z33/ Z45 HLT Y3/ 4V/ Z33/ Z45
	80	22,0	30,0	NLT 80/ 4E/ Z33 HLT 80/ 4E/ Z33	NLT 80/ 4ZM/ Z33 HLT 80/ 4ZM/ Z33	NLT 80/ 4V/ Z33/ Z45 HLT 80/ 4V/ Z33/ Z45
	100	30,0	37,0	NLT 100/ 4E/ Z33 HLT 100/ 4E/ Z33		NLT 100/ 4V/ Z33/ Z45 HLT 100/ 4V/ Z33/ Z45
	125	37,0	45,0	NLT 125/ 4E/ Z33 HLT 125/ 4E/ Z33		NLT 125/ 4V/ Z33/ Z45 HLT 125/ 4V/ Z33/ Z45
	180	75,0	90,5	NLT 180/ 4E/ Z20 HLT 180/ 4E/ Z20		NLT 180/ 4V/ Z20/ ZY5 HLT 180/ 4V/ Z20/ ZY5
	250	110,0	132,0	NLT 250/ 4E/ Z20 HLT 250/ 4E/ Z20		NLT 250/ 4V/ Z20/ ZY5 HLT 250/ 4V/ Z20/ ZY5
6-pole	1Y	5,5	7,5	E NLT 20/ YE/ Z33 HLT 20/ YE/ Z33		V NLT 20/ YV/ Z33/ Z45 HLT 20/ YV/ Z33/ Z45
	25	7,5	9,5	NLT 25/ YE/ Z33 HLT 25/ YE/ Z33		NLT 25/ YV/ Z33/ Z45 HLT 25/ YV/ Z33/ Z45
	32	9,5	11,5	NLT 32/ YE/ Z33 HLT 32/ YE/ Z33		NLT 32/ YV/ Z33/ Z45 HLT 32/ YV/ Z33/ Z45
	40	11,0	20,0	NLT 40/ YE/ Z33 HLT 40/ YE/ Z33		NLT 40/ YV/ Z33/ Z45 HLT 40/ YV/ Z33/ Z45
	Y3	18,5	22,5	NLT Y3/ YE/ Z33 HLT Y3/ YE/ Z33		NLT Y3/ YV/ Z33/ Z45 HLT Y3/ YV/ Z33/ Z45
	80	22,0	30,0	NLT 80/ YE/ Z33 HLT 80/ YE/ Z33		NLT 80/ YV/ Z33/ Z45 HLT 80/ YV/ Z33/ Z45
	100	30,0	37,0	NLT 100/ YE/ Z33 HLT 100/ YE/ Z33		NLT 100/ YV/ Z33/ Z45 HLT 100/ YV/ Z33/ Z45
	125	37,0	45,0	NLT 125/ YE/ Z33 HLT 125/ YE/ Z33		NLT 125/ YV/ Z33/ Z45 HLT 125/ YV/ Z33/ Z45
	180	75,0	90,5	NLT 180/ YE/ Z20 HLT 180/ YE/ Z20		NLT 180/ YV/ Z20/ ZY5 HLT 180/ YV/ Z20/ ZY5
	250	110,0	132,0	NLT 250/ YE/ Z20 HLT 250/ YE/ Z20		NLT 250/ YV/ Z20/ ZY5 HLT 250/ YV/ Z20/ ZY5

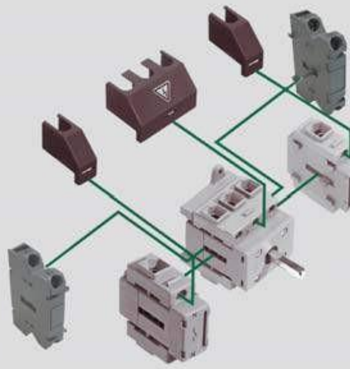
DIN-Railmounting	Maintenance switch, plastic enclosed
 Type	 Type IPY5
T NLT 1Y/ 3T/ Z20 HLT 1Y/ 3T/ Z20	RLT 1Y/ 3PM-D1/ Z33
NLT 25A/ 3T/ Z20 HLT 25A/ 3T/ Z20	RLT 25A/ 3PM-D1/ Z33
NLT 32/ 3T/ Z20 HLT 32/ 3T/ Z20	RLT 32/ 3PM-D1/ Z33
NLT 40/ 3T/ Z20 HLT 40/ 3T/ Z20	RLT 40/ 3PM-D1/ Z33
NLT Y3/ 3T/ Z20 HLT Y3/ 3T/ Z20	RLT Y3/ 3PM-D2/ Z33
NLT 80/ 3T/ Z20 HLT 80/ 3T/ Z20	RLT 80/ 3PM-D2/ Z33
NLT 100/ 3T/ Z20 HLT 100/ 3T/ Z20	RLT 100/ 3PM-D3/ Z33
NLT 125/ 3T/ Z20 HLT 125/ 3T/ Z20	RLT 125/ 3PM-D3/ Z33
	RLT 180/ 3K4/ Z20
	RLT 250/ 3K4/ Z20

T NLT1Y/ 4T/ Z20 HLT1Y/ 4T/ Z20	RLT 1Y/ 4PM-D1/ Z33
NLT25A/ 4T/ Z20 HLT25A/ 4T/ Z20	RLT 25A/ 4PM-D1/ Z33
NLT32/ 4T/ Z20 HLT32/ 4T/ Z20	RLT 32/ 4PM-D1/ Z33
NLT40/ 4T/ Z20 HLT40/ 4T/ Z20	RLT 40/ 4PM-D1/ Z33
NLTY3/ 4T/ Z20 HLTY3/ 4T/ Z20	RLT Y3/ 4PM-D2/ Z33
NLT80/ 4T/ Z20 HLT80/ 4T/ Z20	RLT 80/ 4PM-D2/ Z33
NLT100/ 4T/ Z20 HLT100/ 4T/ Z20	RLT 100/ 4PM-D3/ Z33
NLT125/ 4T/ Z20 HLT125/ 4T/ Z20	RLT 125/ 4PM-D3/ Z33
	RLT 180/ 4K4/ Z20
	RLT 250/ 4K4/ Z20

T NLT20/ YT/ Z20 HLT20/ YT/ Z20	RLT 20/ YPM-D1/ Z33
NLT25/ YT/ Z20 HLT25/ YT/ Z20	RLT 25/ YPM-D2/ Z33
NLT32/ YT/ Z20 HLT32/ YT/ Z20	RLT 32/ YPM-D2/ Z33
NLT40/ YT/ Z20 HLT40/ YT/ Z20	RLT 40/ YPM-D2/ Z33
NLTY3/ YT/ Z20 HLTY3/ YT/ Z20	RLT Y3/ YPM-D3/ Z33
NLT80/ YT/ Z20 HLT80/ YT/ Z20	RLT 80/ YPM-D3/ Z33
NLT100/ YT/ Z20 HLT100/ YT/ Z20	RLT 100/ YPM-D3/ Z33
NLT125/ YT/ Z20 HLT125/ YT/ Z20	RLT 125/ YPM-D3/ Z33
	RLT 180/ YK4/ Z20
	RLT 250/ YK4/ Z20

Connection Diagram	TherGal rated current I_{th} (in A)	AC3	AC23	4-Hole mounting  Type	DIN-Railmounting  Type
3-pole 	25	7,5	9,5	E ULT 25/ 3E	ULT 25/ 3T
	32	9,5	11,5	ULT 32/ 3E	ULT 32/ 3T
	40	11,0	20,0	ULT 40/ 3E	ULT 40/ 3T
	Y3	18,5	22,5	ULT Y3/ 3E	ULT Y3/ 3T
	80	22,0	30,0	ULT 80/ 3E	ULT 80/ 3T
	100	30,0	37,0	ULT 100/ 3E	ULT 100/ 3T
	125	37,0	45,0	ULT 125/ 3E	ULT 125/ 3T
	180	75,0	90,5	ULT 180/ 3E	
	250	110,0	132,0	ULT 250/ 3E	
4-pole 	25	7,5	9,5	E ULT 25/ 4E	T ULT 25/ 4T
	32	9,5	11,5	ULT 32/ 4E	ULT 32/ 4T
	40	11,0	20,0	ULT 40/ 4E	ULT 40/ 4T
	Y3	18,5	22,5	ULT Y3/ 4E	ULT Y3/ 4T
	80	22,0	30,0	ULT 80/ 4E	ULT 80/ 4T
	100	30,0	37,0	ULT 100/ 4E	ULT 100/ 4T
	125	37,0	45,0	ULT 125/ 4E	ULT 125/ 4T
	180	75,0	90,5	ULT 180/ 4E	
	250	110,0	132,0	ULT 250/ 4E	

Additional and Auxiliary contacts



Additional contacts	Switch size	Constr. form E + ZM	Const. Form V + T
Neutral Pole (early Gake) N N	.LT 1Y, 20A, 25A	NVG 20AE	NVG 20AV
	.LT 25-40	NVG 40E	NVG 40V
	.LT Y3-80	NVG 80E	NVG 80V
	.LT 100-125	NVG 125E	NVG 125V
	.LT 180-250	NVG 250E	NVG 250V
Neutral Pole (siGultaneous Gake) N N	.LT 1Y, 20A, 25A	NGG 20AE	NGG 20AV
	.LT 25-40	NGG 40E	NGG 40V
	.LT Y3-80	NGG 80E	NGG 80V
	.LT 100-125	NGG 125E	NGG 125V
	.LT 180-250	NGG 250E	NGG 250V
Neutral Pole (solid neutral) N N PE PE	.LT 1Y, 20A, 25A	N / PE 20AE	N / PE 20AV
	.LT 25-40	N / PE 40E	N / PE 40V
	.LT Y3-80	N / PE 80E	N / PE 80V
	.LT 100-125	N / PE 125E	N / PE 125V
	.LT 180-250	N / PE 250E	N / PE 250V
Auxiliary contacts (1NO + 1NC)			
11 13 12 14	.LT 1Y-250	HE11	HV11

Our range of maintenance bypass key-switches aims to offer key control to improve not only the safety aspect of bypass switching but ensuring only authorised personnel are able to use the switch when required thus maintaining the integrity of a sound UPS and maintenance system.

We specialise in 1 to 4 pole, 2 to 4 position UPS bypass switches. Additionally, we build rotary Cam switches and reverse star delta switches, designed to customer specifications. All of our products are manufactured to the highest standard using the superior quality materials from Germany. Ranging up to 1200 Amperes, our MBS units are the first and last word in electrical safety and control.

Options Include:

Maintenance Bypass switches may be purchased as:

1. Switch only
2. Switch in enclosure (plastic or metal or rack mount)
3. Switch in enclosure, wired to terminals

Interlock:

1. Mechanical (push button) interlock with auxiliaries. This requires that the button be depressed in order to operate the switch.
2. Key interlock.
3. Electrical (solenoid) interlock with auxiliaries. This requires the switch to be in predetermined set electrical conditions before the switch can be made operational.

Figure 1 UPA3/600V/Z46

Figure 1 UPA3/100E/Z31/H11 side mounted in a 400x400x300mm metal enclosure. Note: May be front mounted.

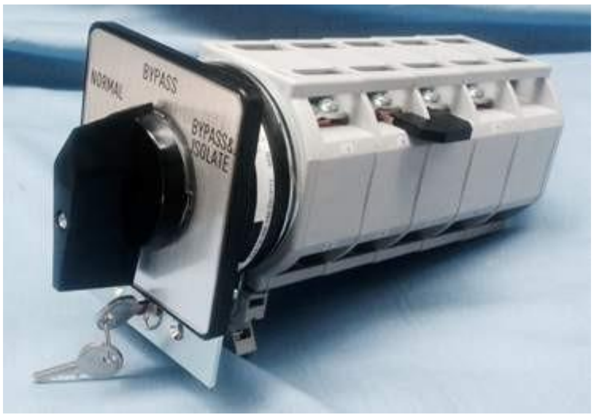
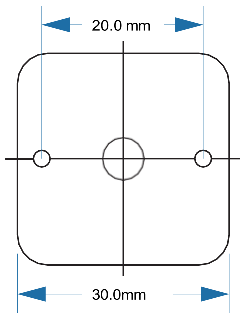
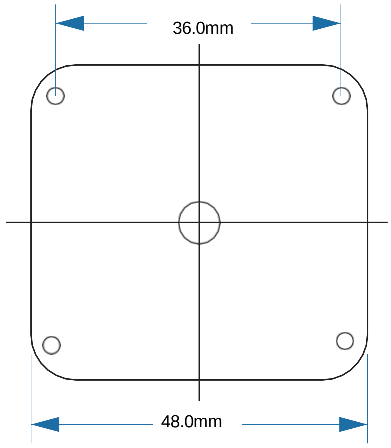


Figure 1 Side view of UPC3/100E

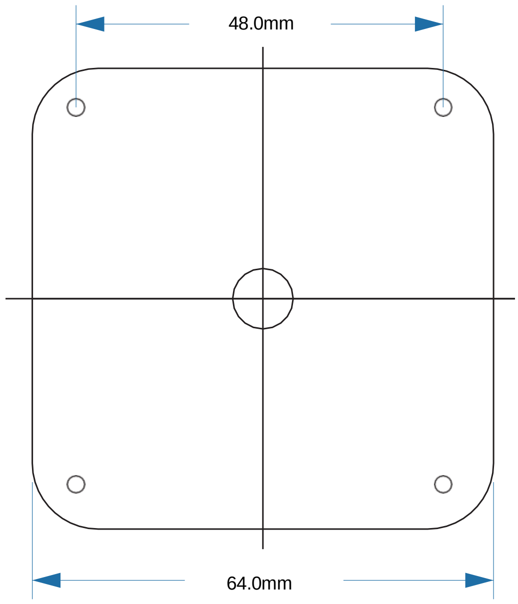
Bypass Switchgear sizes



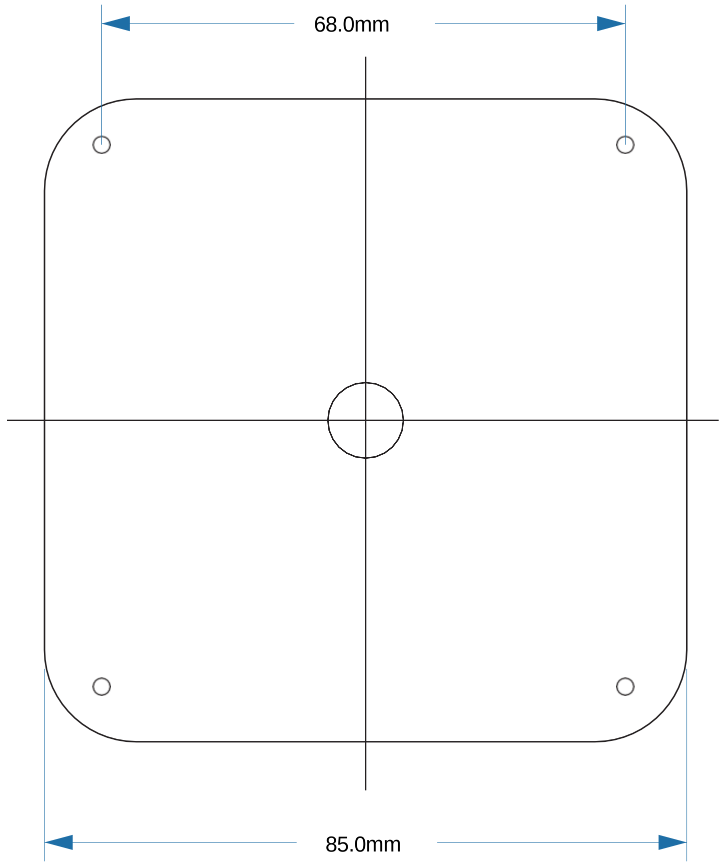
D00- This is the smallest size and will take 0 Amps to 10 Amps.



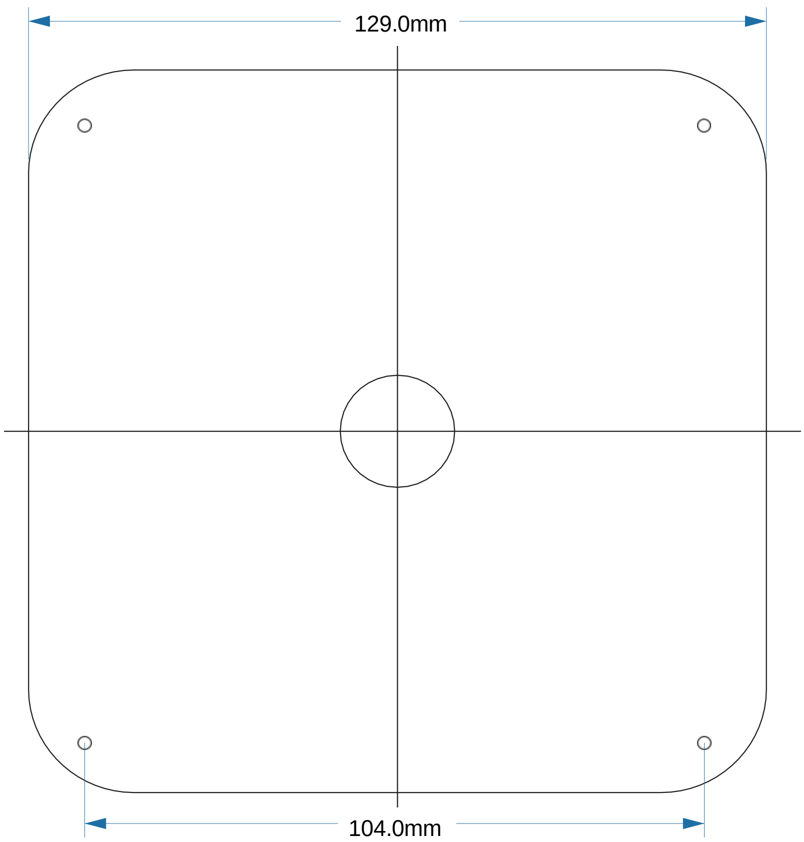
D0- This is the second smallest size and will take up to 16 Amps.



D1- This size will take up to 63 Amps.

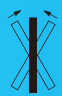
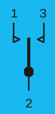
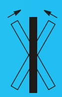
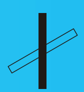


D2- This size will take up to 160 Amps.

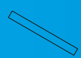


D3- This size will take in excess of 160 Amps, catering for larger required current ratings.

Keyswitch contact configurations available as standard

Key Movement	Switch Function	Type Number	Description
		A 1/12TA or TP	OFF - ON Switch, turn key clockwise, 1 and 2 are CLOSED and stay CLOSED until key is returned to Normal position. 'Key is captive until returned to Normal position or OFF.
		AR 1/12TA or TP	OFF - ON Switch, turn key clockwise, 1 and 2 are CLOSED and stay CLOSED until key is released. On release 1 and 2 spring return to OPEN, key spring returns to the Normal.
		AH 1/12TA or TP	OFF - ON Switch, turn key clockwise, 1 and 2 are CLOSED and HOLD CLOSED. Key spring returns to the Normal position and may be removed, 1 and 2 are still CLOSED. To switch OFF turn key Anti-Clockwise, 1 and 2 are OPEN and HOLD OPEN.
		U 1/12TA or TP	CHANGE OVER SWITCH with centre OFF position, turn key clockwise to CLOSE 3 and 2, anti_clockwise to CLOSE 1 and 2. Key is captive until returned to Normal position.
		URR 1/12TA or TP	CHANGE OVER SWITCH with centre OFF position, turn key clockwise to CLOSE 3 and 2, or anti_clockwise to CLOSE 1 and 2 until Key is released. On release the switch spring returns to the OFF condition, key spring returns to Normal position.
		UH 1/12TA or TP	CHANGE OVER SWITCH without (OFF) position, turn key clockwise to CLOSE 3 and 2 switch will HOLD 3 and 2 CLOSED while key is released and maybe removed. Turn key anti-clockwise to OPEN 3 and 2 and CLOSE 1 and 2 switch will HOLD 1 and 2 CLOSED.
		WS 1/12TA or TP	CHANGE OVER SWITCH without OFF position, turn key clockwise to CLOSE 3 and 2 key is captive until returned to the Normal position, 1 and 2 are CLOSED in the Normal position.
		WSR 1/12TA or TP	CHANGE OVER SWITCH without OFF position, turn key clockwise to CLOSE 3 and 2 while key is held over. On release the switch returns to the Normal position, 1 and 2 are CLOSED in Normal.
		CR 1/12TA or TP	NORMALY CLOSED SWITCH, 1 and 2 are normally closed, turn the key clockwise to open 1 and 2. On release the key will return to the normal Position, 1 and 2 will close.

All Switches may supplied in multi pole versions, just replace the 1 by number of poles req. (eg. A 3/12... or URR 2/12...)
The [A] stands for Aluminium, [P] for Plastic Mounting Hardware, use P for Voltages over 32 Volts for better Insulation.

				
Key out position Normal	30° Clockwise Spring Return	60° Clockwise Maintained	30° Anti-Clockwise Spring Return	60° Anti-Clockwise Maintained