AUSPICIOUS

CAM SWITCHES

2008 - E

TUV Rheinland Group

License No. R50062176
EN 60947-1:2004
EN 600947-3:1999+A1
EN 600947-4-1:2001+A1
EN 60947-5-1:2004

Rating:

Series		A2Y1 PS2Y2 R2Y3	CY4	A3Y1	A4Y1	A6Y1
Rated frequency	Hz	50/60				
Thermal current Ith	A	20	25	40	63	80
Utilization category AC-1 (EN 60947-4-1)	-	16A, 660V	20A, 660V	32A, 660V	40A, 660V	63A, 660V
Utilization category AC-21A (EN 60947-3)	-	16A, 600V	20A, 600V	25A, 600V	32A, 600V	40A, 600V
Utilization category AC-22A (EN 60947-3)	-	16A, 600V	20A, 600V	32A, 600V	40A, 600V	63A, 600V
Utilization category AC-12 (EN 60947-5-1)	-	6A, 240V 4A, 440V	6A, 240V 4A, 440V	14A, 240V 6A, 440V	16A, 240V 7A, 440V	--
Rated short-time withstand current Icw	A	250	350	1000	1000	1000
Rated short-time making capacity Icm	KA	None				
Rated conditional short circuit current	KA	1	1	10	10	10
Kind of SCPD	-	Fuse (gL/gG)	Fuse (gL/gG)	Fuse (gL/gG)	Fuse (gL/gG)	Fuse (gL/gG)
Rating of SCPD	A	20A	25A	40A	65A	80A
Insulation Voltage Ui	V	690				
Impulse Withstand Voltage Uimp	V	N				

CSA Certified 186663

Applicable Requirements
CAN/CSA-C22.2 No. 0-M91-General Requirements-Canadian Electrical Code, PART II
CAN/CSA-C22.2 No. 14-05-Industrial Control Equipment
UL Standard No. 508, 17th-Industrial Control Equipment
CSA Std C22.2 No. 65-93-Wire Connectors

Rating:

Model No.	General Purpose		HP Rating			
			Single Phase / 2 pole		Three phase / 3 pole	
	Voltage (V)	Current (A)	110-120V	220-240V	220-240V	440-480V
PART A: AX1Y1, PSX1Y1, VSX1Y1, ASX1Y1 SERIES	600	20	1.0	2	3	5
PART B: CY4, PSX2Y2 SERIES	600	25	1.0	2	3	5
PART C: A3Y3, PSX3Y3 SERIES	600	40	3	5	7.5	10
PART D: A6Y3 SERIES	600	80	5.0	10	15	30

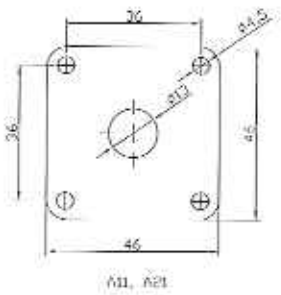
A11 — F1 — VS 33 — V1 — K1

Type of Switch	Type of Frame	Contact arrangement & Code No.	Type of Escutcheon Plate No.	Handle type
A11 (20A)	F1 F2 F3	Please refer to "Code No" on Page 5 to Page 16 for detail	Please refer to "Escutch Platte" on Page 5 to Page 16 for detail	Please refer to Page 4 for detail
A21 (25A)	F1 F2 F3 F4			
A32 (32A)	F3			
A42 (63A)	F3			
A53 (100A) Please refer to "Nominal Rating" for detail	F5 Please refer to "Frame Dimensions" for detail			

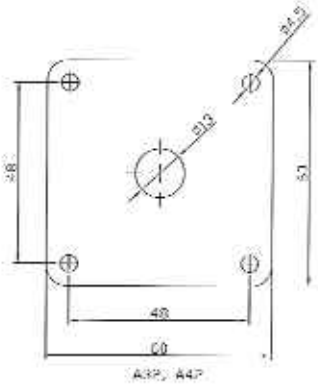
NOMINAL RATING

Type	Continuous Current Ith A	Motor	3ph	1ph	AC 23A - KW		AC 3A - KW	
					3ph	1ph	3ph	1ph
A11	20A 25A 600V AC	110V 120V		1HP				
		220V-240V	3HP	2HP	3.7	2.5	3	2.5
A21		440V-480V	5HP		7.5	3.7	5.5	3
		660V-690V			7.5	4.0	5.5	3
A32	40A 600V AC	110V 120V		3HP				
		220V 240V	7.5HP	5HP	7.5	3.5	5.5	3
		440V-480V	10HP		10	3.8	7.5	3.5
		660V-690V			13	5.5	10	5
A42	80A 600V AC	110V-120V		5HP				
		220V 240V	15HP	10HP	15	11	11	3.5
		440V 480V	30HP		25	15	18.5	10
		660V-690V			25	15	18.5	10
A53	115A 600V AC	110V-120V	10HP	5HP				
		220V-240V	20HP	10HP	30	15	15	7.5
		440V-480V	30HP		45	22	30	13
		660V-690V			45	18.5	30	11

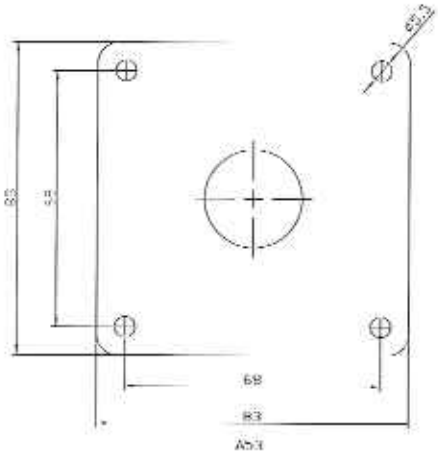
DIMENSIONS FOR TYPE A11,A21,A32,A42,A53



A11,A21

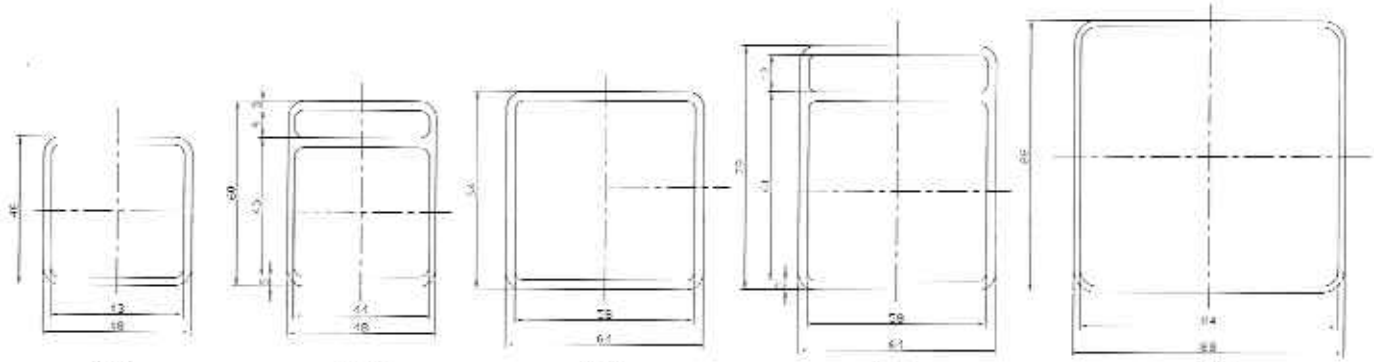


A32,A42

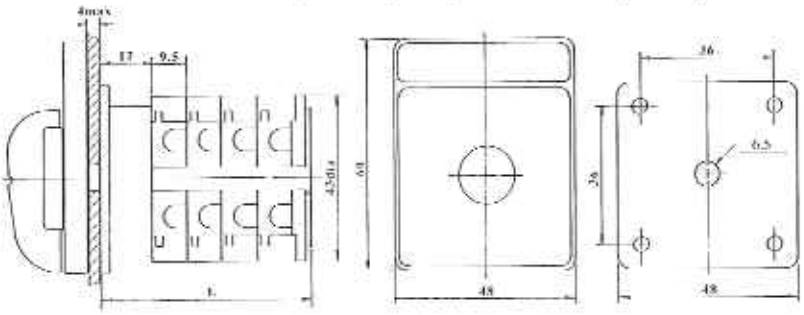


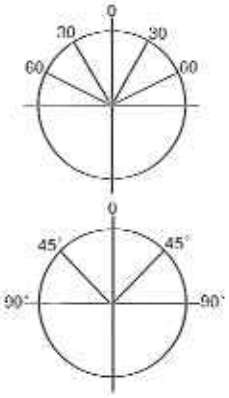
A53

FRAME DIMENSIONS



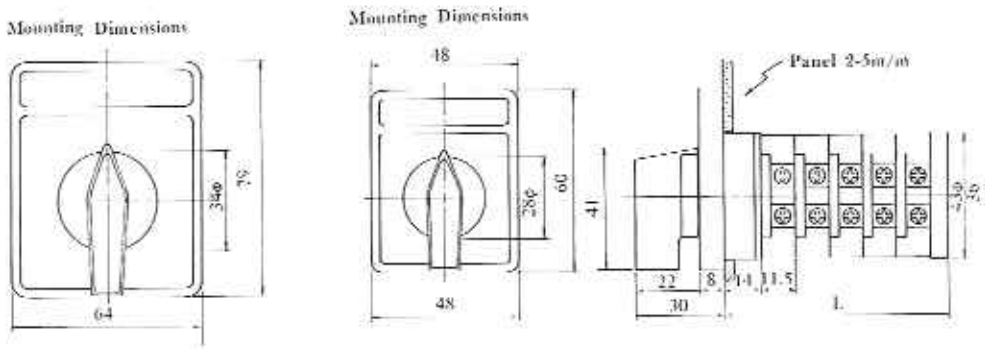
Dimensions for A2, PS2, R2, switches (20A)





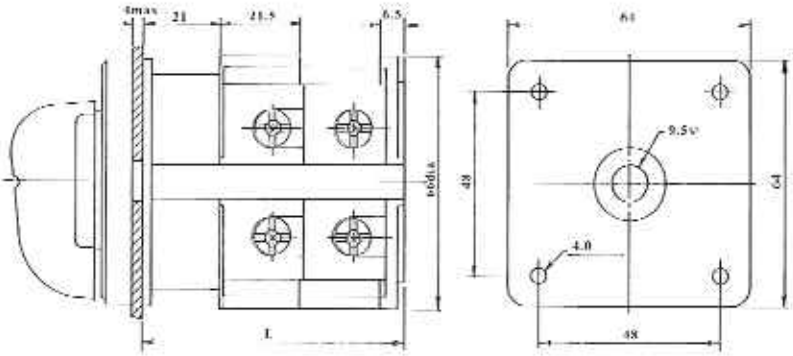
Total Number of stage	1	2	3	4	5	6	7	8
Length L	31.5	41	50.5	60	69.5	79	88.5	98

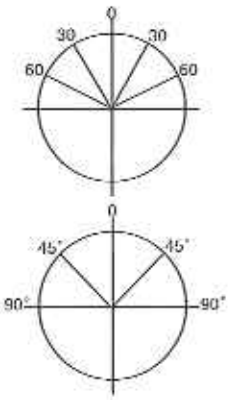
Dimensions for C2 series switches (20A, 25A)



Total Number of stage	1	2	3	4	5	6	7	8	9	10
Length L	37	48.5	60	71.5	83	94.5	106	117.5	129	140.5

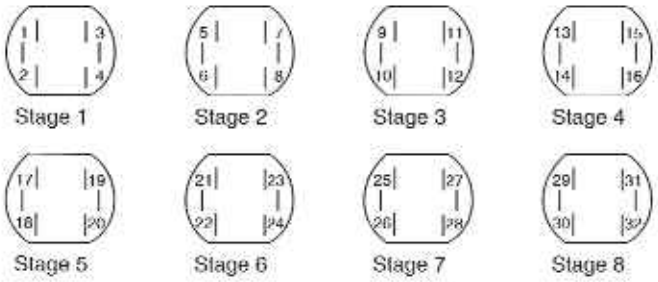
Dimensions mounting for A3, A4, A6 switches (32A, 40A,63A)



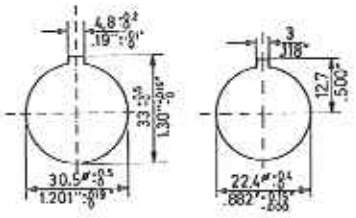


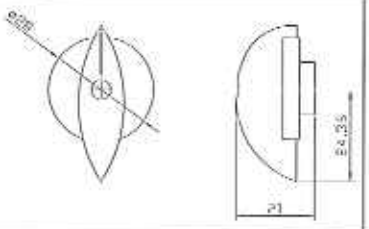
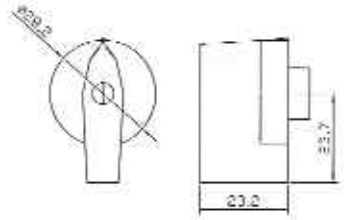
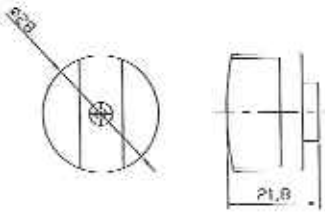
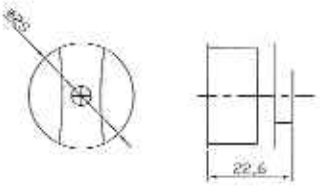
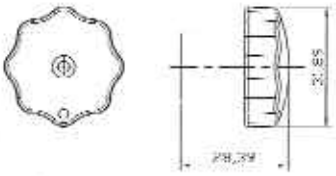
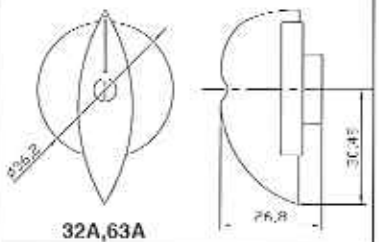
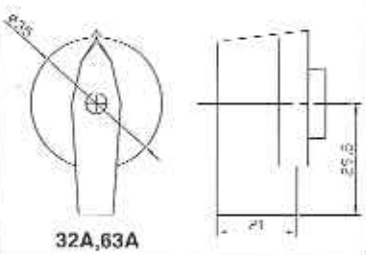
Total Number of stage	1	2	3	4	5	6
Length L	49	70.5	50.5	113.5	135	156.5

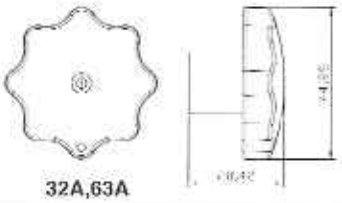
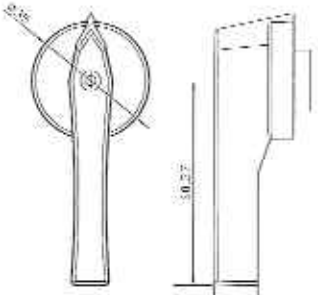
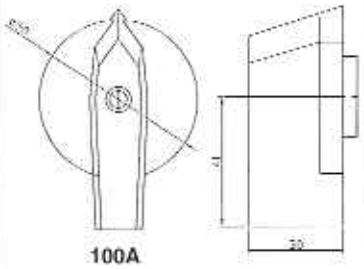
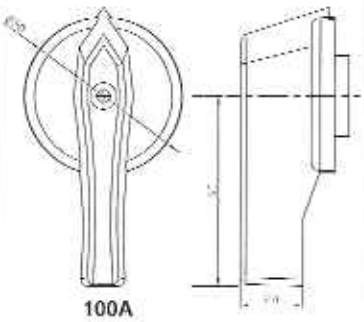
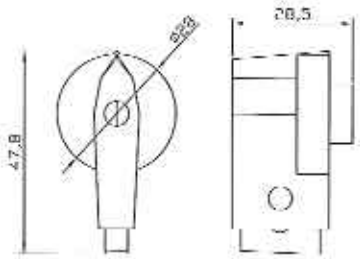
connecting diagram



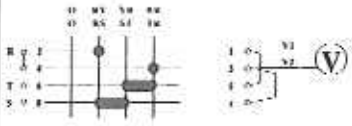
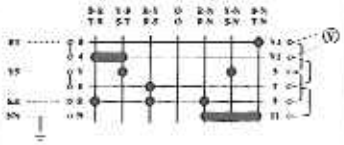
CENTER HOLE MOUNTING



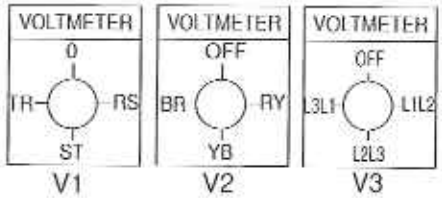
Code	Dimension	Type
K1		
K2		
K3		
K4		
K5		
K6	 32A,63A	
K7	 32A,63A	

Code	Dimension	Type
K8	 32A,63A	
K9	 32A,63A	
K10	 100A	
K11	 100A	
K12		

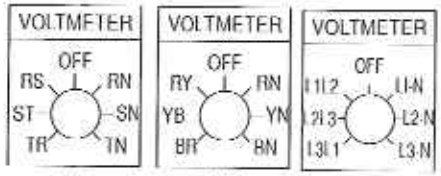
Voltmter switches with Off

Code No.	Function	Stage	Connecting diagram	In / Out Put	
VS 33	3 Phase 3 wire	2		4 R V1 V2 S T 5 7	
VS 34	3 Phase 4 wire	3		B V2 V1 Y N R	

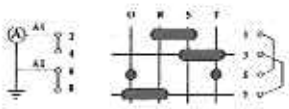
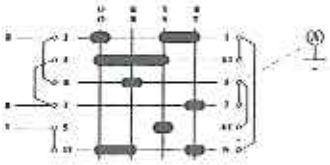
Escutch Plate



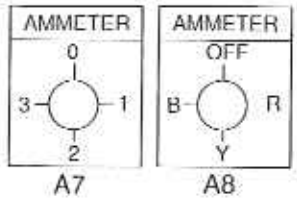
Escutch Plate

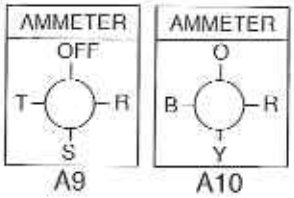


Ammeter Switches

Code No.	Function	Stage	Connecting diagram	In / Out Put	
AS 33	3 Phase 3 wire 2 current transformer	2		4 R A1 T 8 5 A2 7	
AS34	3 Phase 4 wire 3 current transfor mer	3		A2 B R A1 Y N	

Escutch Plate

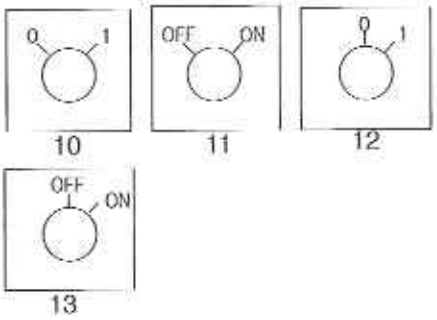




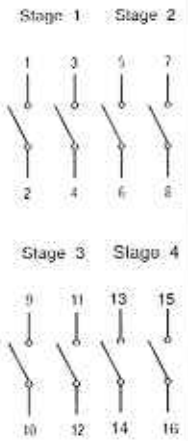
ON-OFF switches 45°, 60°, 90°, switching 20A

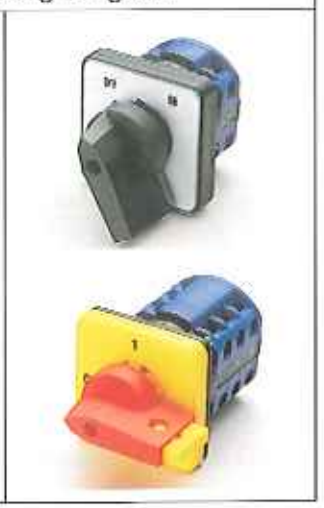
Code No	Function	Stage
A201	1 Pole	1
A201A	2 Pole	1
A202	3 Pole	2
A202A	4 Pole	2
A203	5 Pole	3
A203A	6 Pole	3
A204	7 Pole	4
A204A	8 Pole	4
A205	9 Pole	5
A205A	10 Pole	5
A206	11 Pole	6
A206A	12 Pole	6

Escutch plate



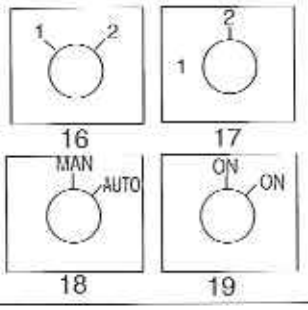
Connecting Diagram

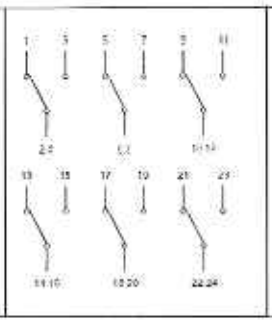




Change over switches without OFF 90°, 60°, 45°, 30°, switching 20A

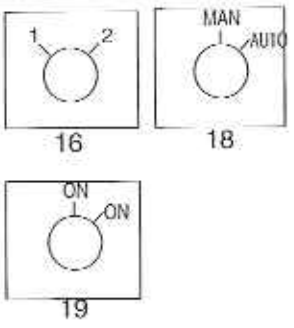
A207	1 Pole	1
A208	2 Pole	2
A209	3 Pole	3
A210	4 Pole	4
A211	5 Pole	5
A212	6 Pole	6

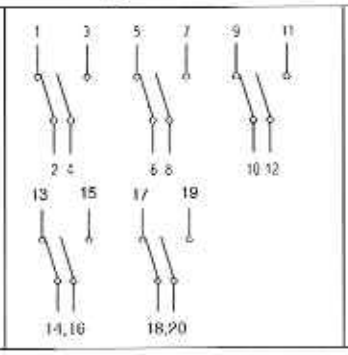


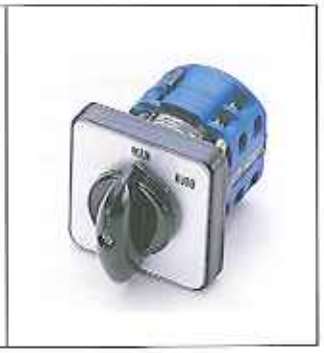


Change over switches without OFF with electrically isolated contacts 20A

A213	1 Pole	1
A214	2 Pole	2
A215	3 Pole	3
A216	4 Pole	4

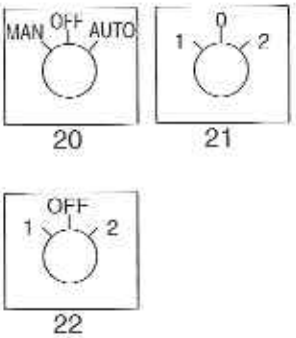


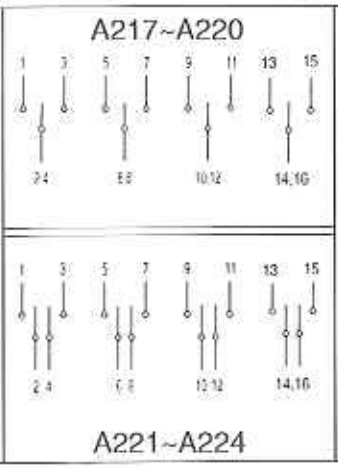




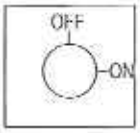
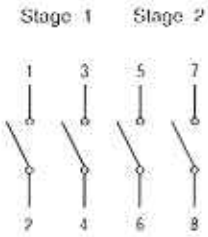
Change over switches with center OFF 60°, 45°, 90° switching 20A

A217	1 Pole	1
A218	2 Pole	2
A219	3 Pole	3
A220	4 Pole	4
A221	1 Pole	1
A222	2 Pole	2
A223	3 Pole	3
A224	4 Pole	4

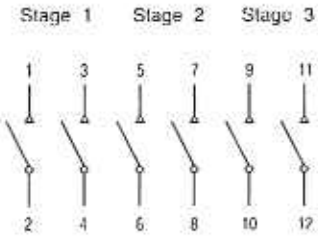
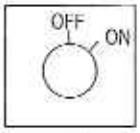




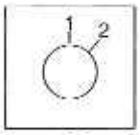
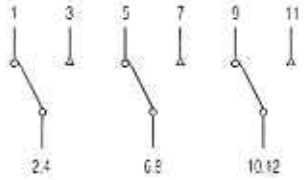
ON - OFF Power switches 90° 20A

Code No	Function	Stage	Escutch Plate	Connecting Diagram	
PS21	1 Pole	1			
PS22	2 Pole	1			
PS23	3 Pole	2			
PS24	4 Pole	2			

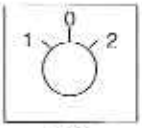
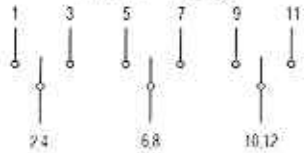
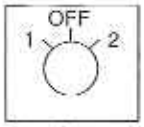
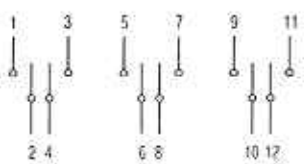
ON - OFF switches spring return to centre 20A

R201	1 Pole	1	23		
R201A	2 Pole	1			
R202	3 Pole	2			
R202A	4 Pole	2	 24		
R203	5 Pole	3			
R203A	6 Pole	3			

Change - over switches with spring return 20A

R205	1 Pole	1	 25		
R206	2 Pole	2			
R207	3 Pole	3			
R208	1 Pole	1			
R209	2 Pole	2			
R210	3 Pole	3			

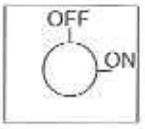
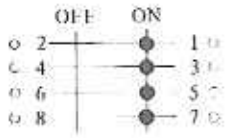
Change - over switches with spring return to centre 20A

R211	1 Pole	1	 26	R211~R213 	
R212	2 Pole	2			
R213	3 Pole	3			
R214	1 Pole	1	 27	 R214~R216	
R215	2 Pole	2			
R216	3 Pole	3			

Specifications

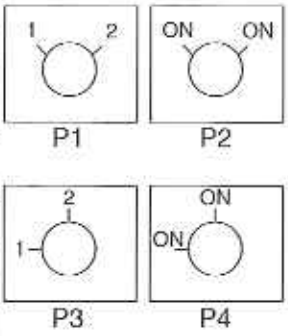
Rated insulation voltage: 600V AC/DC
Rated current : 25A

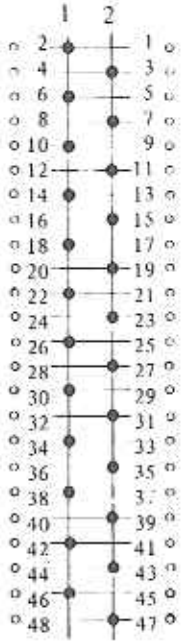
ON / OFF Power Switch 90° 25A

Code No	Poles	Stage	Escutch Plate	Connecting Diagram	
PS251	1	1			
PS252	2	1			
PS253	3	2			
PS254	4	2			

Change-over switches without "OFF" 90° Switching 20A , 25A

Code No	Poles	Stage
C001	1 Pole	1
C002	2 Pole	2
C003	3 Pole	3
C004	4 Pole	4
C005	5 Pole	5
C006	6 Pole	6
C007	7 Pole	7
C008	8 Pole	8
C009	9 Pole	9
C010	10 Pole	10

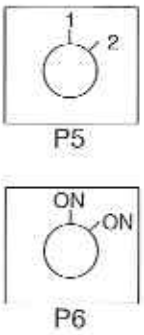




1 – 12 pole

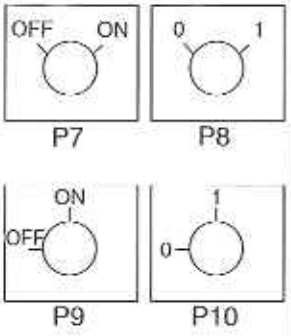
Changeover switches without "OFF" 60° Switching

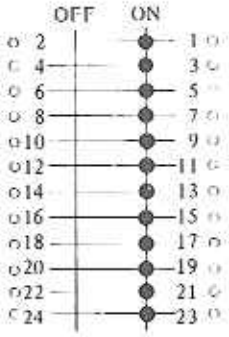
C013	1 Pole	1
C014	2 Pole	2
C015	3 Pole	3
C016	4 Pole	4
C017	5 Pole	5
C018	6 Pole	6
C019	7 Pole	7
C020	8 Pole	8
C021	9 Pole	9
C022	10 Pole	10



ON / OFF Switches with 90° Switching 20A , 25A

C025	1 Pole	1
C026	2 Pole	1
C027	3 Pole	2
C028	4 Pole	2
C029	5 Pole	3
C030	6 Pole	3
C031	7 Pole	4
C032	8 Pole	4
C033	9 Pole	5
C034	10 Pole	5
C035	11 Pole	6
C036	12 Pole	6



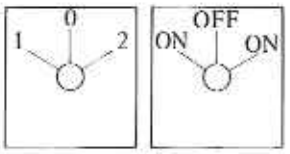


1 Pole – 6 Pole

Change over switches with "OFF" 60° Switching 20A , 25A

Code No.	Function	Stages
C037	1 pole	1
C038	2 pole	2
C039	3 pole	3
C040	4 pole	4
C041	5 pole	5
C042	6 pole	6

Escutch plate



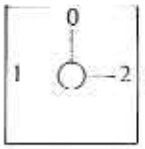
P11 P12

Connection diagram

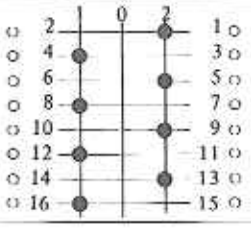
1 pole – 6 pole

Change over switches with "OFF" 90° Switching 20A , 25A

C045	1 pole	1
C046	2 pole	2
C047	3 pole	3
C048	4 pole	4

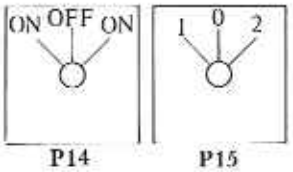


P13

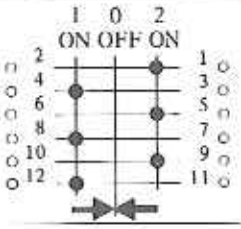


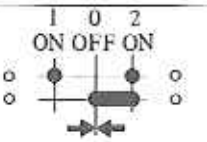
Change over switches with spring return to center

C049	1 pole	1
C050	2 pole	2
C051	3 pole	3



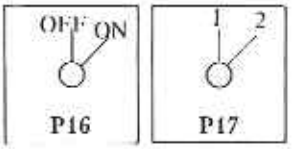
P14 P15



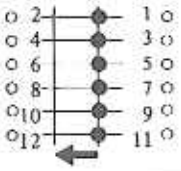


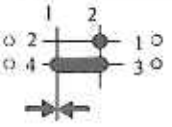
Change over switches with spring return 20A , 25A

C052	1 pole	1
C053	2 pole	1
C054	3 pole	2
C055	4 pole	2



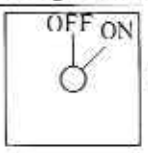
P16 P17



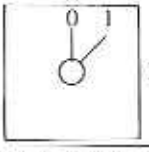


ON/OFF Switches with 45° Switching 20A , 25A

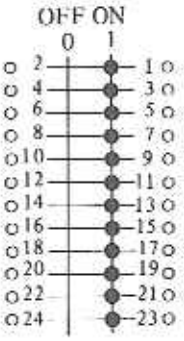
C056	1 pole	1
C057	2 pole	1
C058	3 pole	2
C059	4 pole	2
C060	5 pole	3
C061	6 pole	3
C062	7 pole	4
C063	8 pole	4

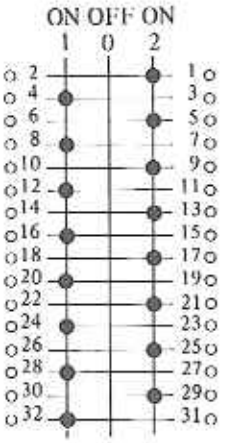


P18



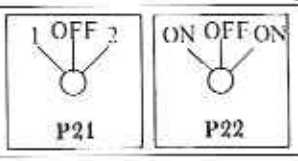
P19





Change over switches with centere "OFF" 45° Switching

C068	1 pole	1
C069	2 pole	2
C070	3 pole	3
C071	4 pole	4



P21 P22

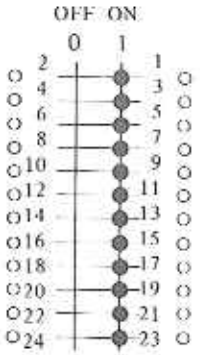
Escutch plate
48x48mm
(A12)

Escutch plate
64x64mm
(A22)

ON-OFF SWITCHES WITH 60° SWITCHING 20A , 25A

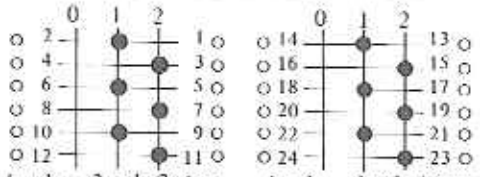
Code No.	Function	Escutch Plate	Stages
C076	1 pole	P23	1
C077	2 pole		1
C078	3 pole		2
C079	4 pole		2
C080	5 pole		3
C081	6 pole	P24	3
C082	7 pole		4
C083	8 pole		4
C084	9 pole		5
C085	10 pole		5
C086	11 pole		6

Connection diagram

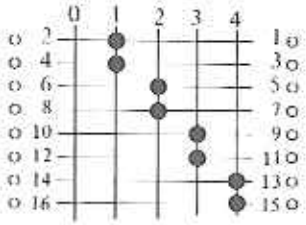


MULTI-STEP SWITCHES WITH "OFF" 20A , 25A

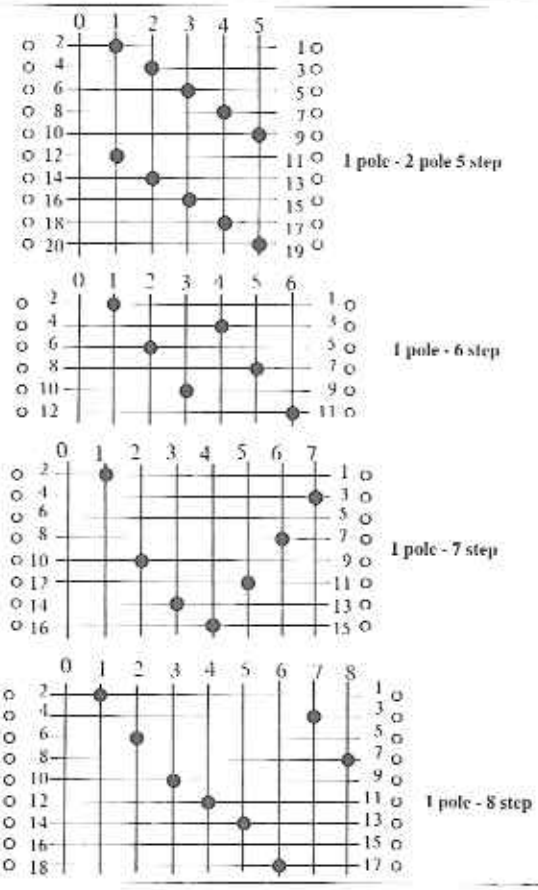
C087	1 pole 2 step	P25	1
C088	2 pole 2 step		2
C089	3 pole 2 step		3
C090	4 pole 2 step		4
C091	5 pole 2 step		5
C092	6 pole 2 step		6



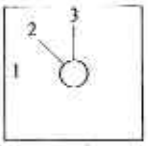
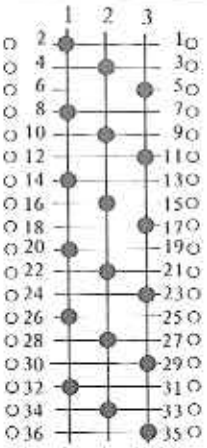
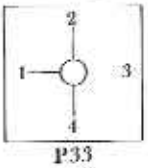
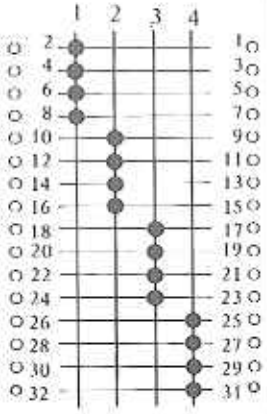
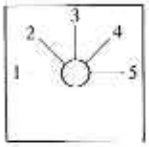
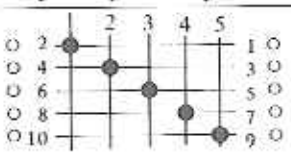
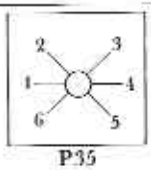
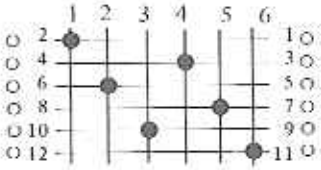
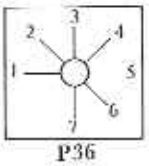
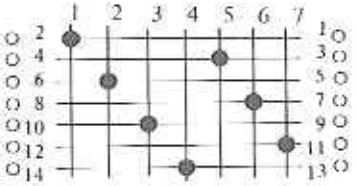
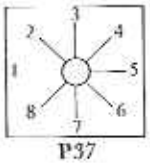
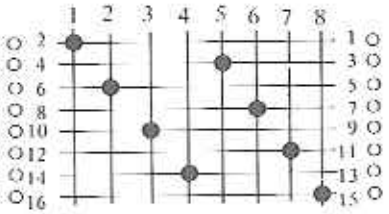
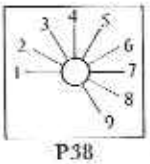
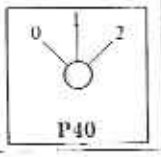
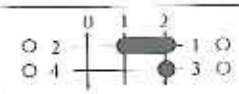
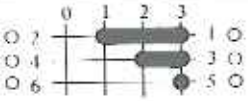
C093	1 pole 3 step	P26	2
C094	2 pole 3 step		3
C095	3 pole 3 step		5
C096	4 pole 3 step		6
C097	5 pole 3 step		8



C098	1 pole 4 step	P27	2
C099	2 pole 4 step		4
C100	3 pole 4 step		6
C101	4 pole 4 step		8
C102	1 pole 5 step	P28	3
C103	2 pole 5 step		5
C104	3 pole 5 step		8
C105	1 pole 6 step	P29	4
C106	2 pole 6 step		7
C107	3 pole 6 step		11
C108	1 pole 7 step	P30	4
C109	2 pole 7 step		8
C110	1 pole 8 step		5
C111	1 pole 9 step		5
C112	1 pole 10 step		6
C113	1 pole 11 step	P31	6



MULTI-STEP SWITCHES WITHOUT "OFF" 20A , 25A

Code No	Function	Stage	Escutch plate	Connection diagram
C114	1 pole 3 step	2	 P32	 1 pole–6pole 3 step
C115	2 pole 3 step	3		
C116	3 pole 3 step	5		
C117	4 pole 3 step	6		
C120	1 pole 4 step	2	 P33	 1 pole – 6 pole 4 step
C121	2 pole 4 step	4		
C122	3 pole 4 step	6		
C126	1 pole 5 step	3	 P34	
C127	2 pole 5 step	5		
C128	3 pole 5 step	8		
C130	1 pole 6 step	3	 P35	
C131	2 pole 6 step	6		
C134	1 pole 7 step	4	 P36	
C135	2 pole 7 step	7		
C137	1 pole 8 step	4	 P37	
C138	2 pole 8 step	8		
C139	3 pole 8 step	12		
C140	1 pole 9 step	5	 P38	
C141	1 pole 10 step	5		
C142	1 pole 11 step	6	P39	
C143	1 pole 12 step	6		
C144	1 pole 2 step	1	 P40	 2 step
C145	2 pole 2 step	2		
C146	3 pole 2 step	3		 3 step
C147	4 pole 2 step	4		
C148	5 pole 2 step	5		

MULTI STEPSWITCHES WITH "OFF" 20A , 25A

Code No.	Function.	Stage	Eschtch plate	connection diagram
C149	1 pole 3 step	2	P41 P42	0 1 2 3 4
C150	2 pole 3 step	3		
C151	3 pole 3 step	5		
C152	4 pole 3 step	6		
C153	5 pole 3 step	8	P43 P44	0 1 2 3 4 5
C154	1 pole 4 step	2		
C155	2 pole 4 step	4		
C156	3 pole 4 step	6		
C157	4 Pole 4 Step	8	P45 P46	0 1 2 3 4 5 6
C158	1 pole 5 step	3		
C159	2 pole 5 step	5		
C160	3 pole 5 step	8		
C161	1 pole 6 step	4	P47	0 1 2 3 4 5 6 7
C162	2 pole 6 step	7		
C163	3 pole 6 step	11		
C164	1 pole 7 step	4		
C165	2 pole 7 step	8		
C166	1 pole 8 step	5	P48	
C167	1 pole 9 step	5		
C168	1 pole 10 step	6		
C169	1 pole 11 step	6		

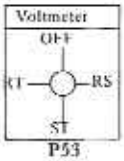
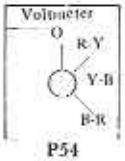
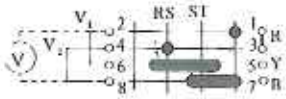
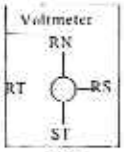
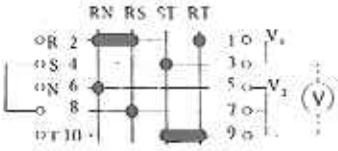
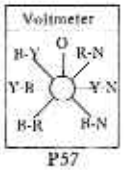
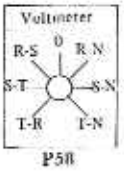
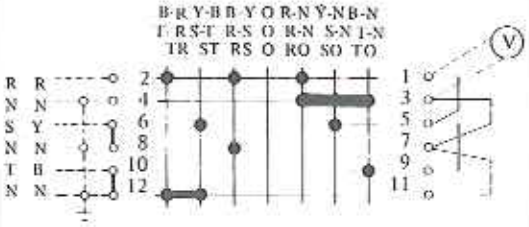
MOTOR REVERSING SWITCHES 20A , 25A

C170	2 pole	3	FOR OFF REV	FOR OFF REV
C171	3 pole	4	1 0 2	1 0 2 FOR OFF REV

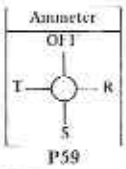
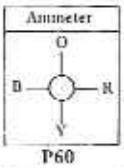
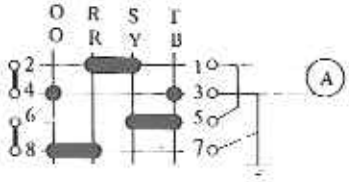
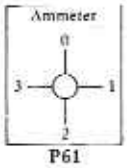
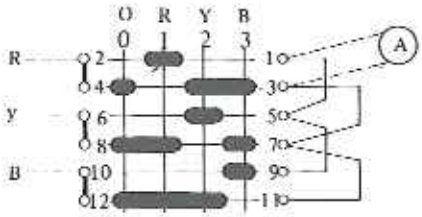
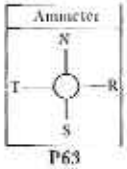
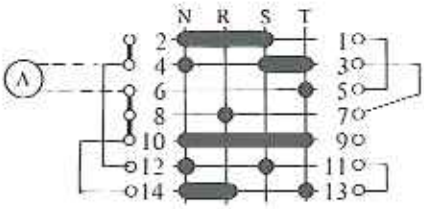
MOTOR REVERSING SWITCHES 20A , 25A

C172	2 speed	3	OFF LOW HIGH P51	LOW OFF HIGH
C173		7	P52 P52A	0 1 0 2 0 1 0 2
4 pole - 8 pole Speed control and Reversing Control				

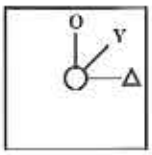
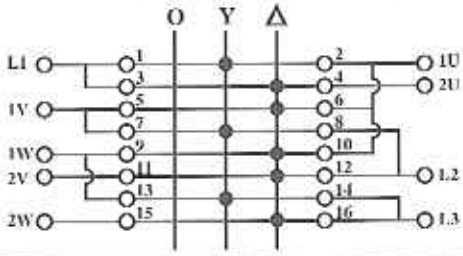
VOLTMETER WITCHES

Code No.	Stage	Escutch Plate	connction diagram
C174 3 phase 3 wire	3	 P53  P54	
C175 3 phase 4 wire	4	 P55 P56	
C176 3 phase 4 wire	4	 P57  P58	

AMMETER SWITCHES

Code No.	Stage	Escutch Plate	connction diagram
C177 3 phase 3 wire 2 current transformer	3	 P59  P60	
C178 3 phase 4 wire 3 current transformer	4	 P61 P62	
C179 3 phase 4 wire 3 current transformer	4	 P63	

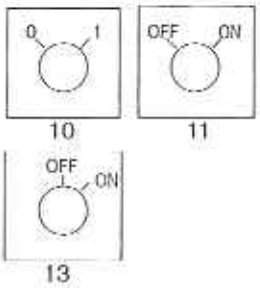
STAR-DELTA SWITCH

Code No.	Stage	Escutch Plate	connction diagram
C180 Star - delta switch	4		

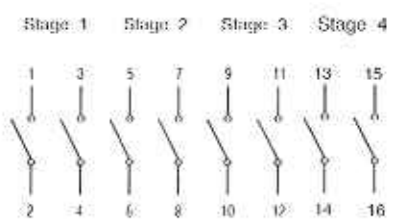
ON-OFF switches 90°, 60° switching 32A

Code No	Function	Stage
A301	1 Pole	1
A301A	2 Pole	1
A302	3 Pole	2
A302A	4 Pole	2
A303	5 Pole	3
A303A	6 Pole	3
A304	7 Pole	4
A304A	8 Pole	4

Escutch Plate

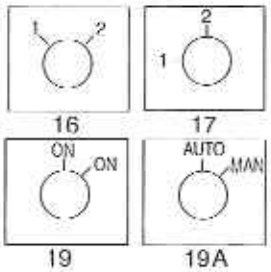


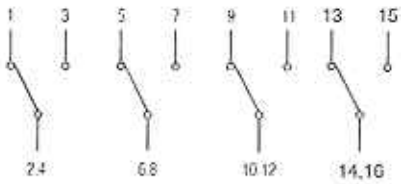
Connecting Diagram



Change over switches without OFF 90°, 60° switching 32A

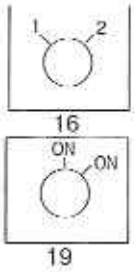
A307	1 Pole	1
A308	2 Pole	2
A309	3 Pole	3
A310	4 Pole	4

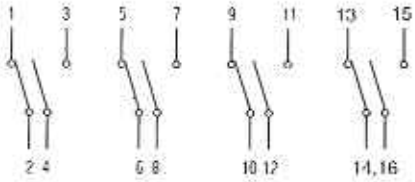




Change over switches without OFF with electrically isolated contacts 32A

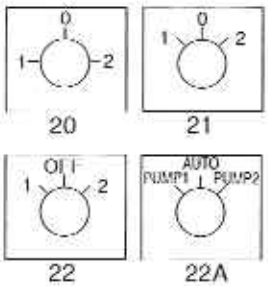
A313	1 Pole	1
A314	2 Pole	2
A315	3 Pole	3
A316	4 Pole	4



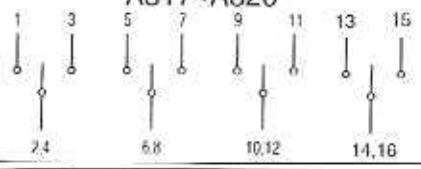


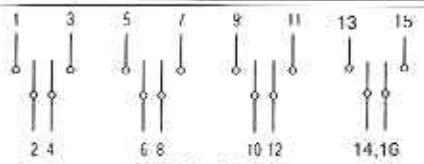
Change over switches with center OFF 90°, 60° switching 32A

A317	1 Pole	1
A318	2 Pole	2
A319	3 Pole	3
A320	4 Pole	4
A321	1 Pole	1
A322	2 Pole	2
A323	3 Pole	3
A324	4 Pole	4



A317~A320

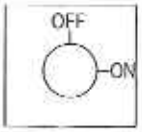


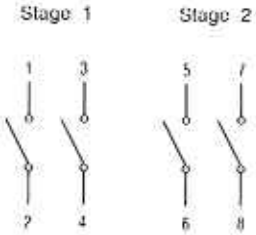


A321~A324

ON - OFF Power switches 90° 32A

PS31	1 Pole	1
PS32	2 Pole	1
PS33	3 Pole	2
PS34	4 Pole	2

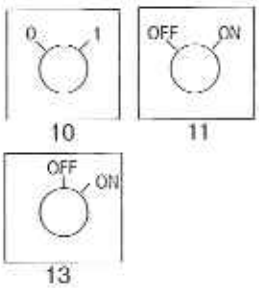




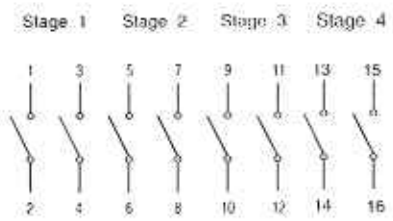
ON-OFF switches 90°, 60° switching 63A

Code No	Function	Stage
A601	1 Pole	1
A601A	2 Pole	1
A602	3 Pole	2
A602A	4 Pole	2
A603	5 Pole	3
A603A	6 Pole	3
A604	7 Pole	4
A604A	8 Pole	4

Escutch Plate

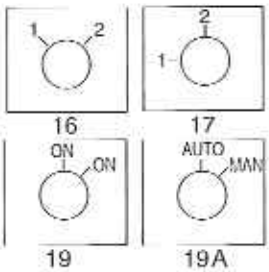


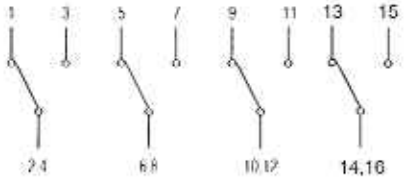
Connecting Diagram



Change over switches without OFF 60°, 90° switching 63A

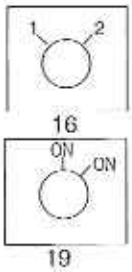
A607	1 Pole	1
A608	2 Pole	2
A609	3 Pole	3
A610	4 Pole	4

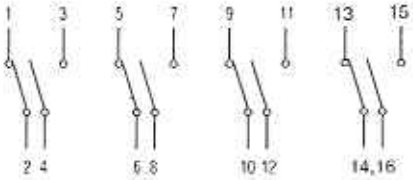




Change over switches without OFF with electrically isolated contacts 63A

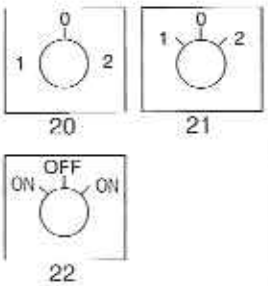
A613	1 Pole	1
A614	2 Pole	2
A615	3 Pole	3
A616	4 Pole	4



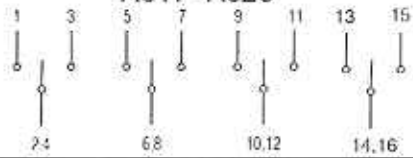


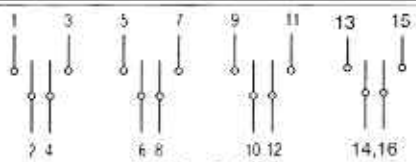
Change over switches with center OFF 90°, 60° 63A

A617	1 Pole	1
A618	2 Pole	2
A619	3 Pole	3
A620	4 Pole	4
A621	1 Pole	1
A622	2 Pole	2
A623	3 Pole	3
A624	4 Pole	4



A617~A620

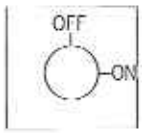


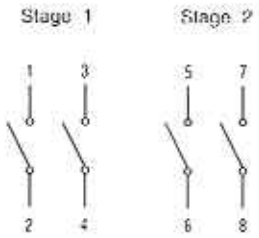


A621~A624

ON - OFF Power switches 90° 63A

PS61	1 Pole	1
PS62	2 Pole	1
PS63	3 Pole	2
PS64	4 Pole	2

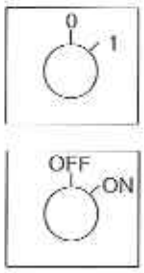




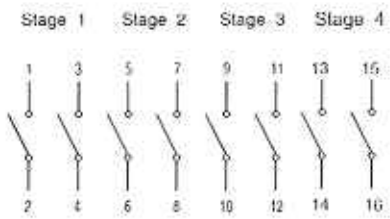
ON-OFF switches with 60° switching

Code No	Function	Stage
A100	1 Pole	1
A100A	2 Pole	1
A101	3 Pole	2
A101A	4 Pole	2
A102	5 Pole	3
A102A	6 Pole	3
A103	7 Pole	4
A103A	8 Pole	4

Escutch Plate

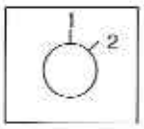


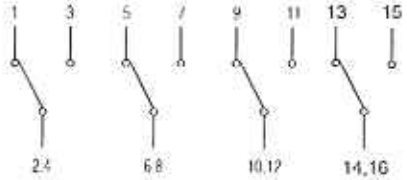
Connecting Diagram



Change over switches without OFF 60° switching

Code No	Function	Stage
A104	1 Pole	1
A105	2 Pole	2
A106	3 Pole	3
A107	4 Pole	4

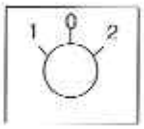
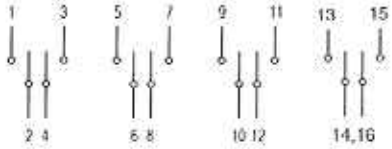




Change over switches with center OFF 60° switching

Code No	Function	Stage
A108	1 Pole	1
A109	2 Pole	2
A110	3 Pole	3
A111	4 Pole	4

Escutch Plate



Connecting Diagram