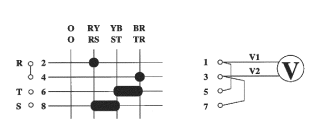
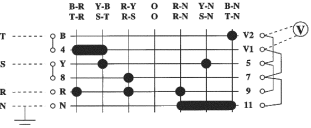
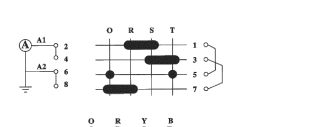
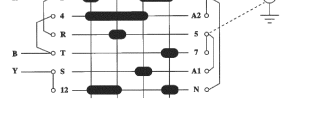
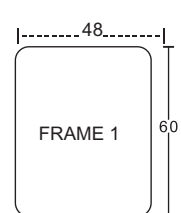
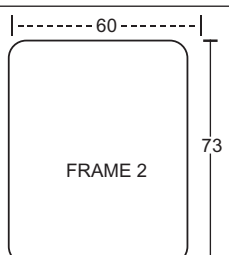


# CAM SWITCHES



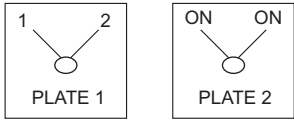
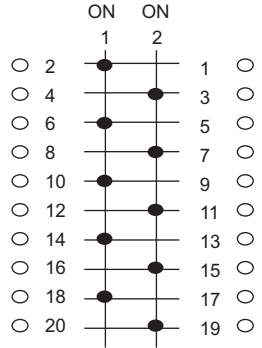
Contact Rating: 16A 300VAC

Voltmeter Switches																																				
Code No	Stages	Name Plate		Connection Diagram	Input/Output																															
CV33 3 phases 3 wires	2	<table border="1"> <tr><td>Voltmeter</td><td>Voltmeter</td></tr> <tr><td>ST</td><td>YB</td></tr> <tr><td>RS</td><td>RY</td></tr> <tr><td>TR</td><td>BR</td></tr> </table> <p>plate 1      plate2</p>	Voltmeter	Voltmeter	ST	YB	RS	RY	TR	BR		<table border="1"> <tr><td>4</td><td>V1</td></tr> <tr><td>R</td><td>V2</td></tr> <tr><td>5</td><td></td></tr> <tr><td>T</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>S</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td>V2</td></tr> <tr><td>10</td><td>V1</td></tr> <tr><td>11</td><td></td></tr> <tr><td>12</td><td></td></tr> </table>	4	V1	R	V2	5		T		6		S		7		8		9	V2	10	V1	11		12	
Voltmeter	Voltmeter																																			
ST	YB																																			
RS	RY																																			
TR	BR																																			
4	V1																																			
R	V2																																			
5																																				
T																																				
6																																				
S																																				
7																																				
8																																				
9	V2																																			
10	V1																																			
11																																				
12																																				
CV34 3 phases 4 wires	3	<table border="1"> <tr><td>Voltmeter</td><td>Voltmeter</td></tr> <tr><td>RY</td><td>RN</td></tr> <tr><td>YB</td><td>YN</td></tr> <tr><td>BR</td><td>BN</td></tr> </table> <p>plate 1      plate2</p>	Voltmeter	Voltmeter	RY	RN	YB	YN	BR	BN		<table border="1"> <tr><td>4</td><td></td></tr> <tr><td>R</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>T</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>S</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td></td></tr> <tr><td>10</td><td></td></tr> <tr><td>11</td><td></td></tr> <tr><td>12</td><td></td></tr> </table>	4		R		5		T		6		S		7		8		9		10		11		12	
Voltmeter	Voltmeter																																			
RY	RN																																			
YB	YN																																			
BR	BN																																			
4																																				
R																																				
5																																				
T																																				
6																																				
S																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				
Ammeter Switches																																				
Code No	Stages	Name Plate		Connection Diagram	Input/Output																															
CA33 3 phases 3 wires 2 current transformers	2	<table border="1"> <tr><td>Ammeter</td><td>Ammeter</td></tr> <tr><td>S</td><td>Y</td></tr> <tr><td>R</td><td>R</td></tr> <tr><td>T</td><td>B</td></tr> </table> <p>plate 1      plate2</p>	Ammeter	Ammeter	S	Y	R	R	T	B		<table border="1"> <tr><td>4</td><td>R</td></tr> <tr><td>A1</td><td>T</td></tr> <tr><td>5</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>A2</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td>A2</td></tr> <tr><td>10</td><td></td></tr> <tr><td>11</td><td>A1</td></tr> <tr><td>12</td><td>N</td></tr> </table>	4	R	A1	T	5		6		A2		7		8		9	A2	10		11	A1	12	N		
Ammeter	Ammeter																																			
S	Y																																			
R	R																																			
T	B																																			
4	R																																			
A1	T																																			
5																																				
6																																				
A2																																				
7																																				
8																																				
9	A2																																			
10																																				
11	A1																																			
12	N																																			
CV34 3 phases 4 wires 3 current transformer	3	<table border="1"> <tr><td>Ammeter</td><td>Ammeter</td></tr> <tr><td>B</td><td>T</td></tr> <tr><td>Y</td><td>R</td></tr> <tr><td>R</td><td>S</td></tr> </table> <p>plate 1      plate2</p>	Ammeter	Ammeter	B	T	Y	R	R	S		<table border="1"> <tr><td>4</td><td></td></tr> <tr><td>R</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>T</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>S</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td></td></tr> <tr><td>10</td><td></td></tr> <tr><td>11</td><td></td></tr> <tr><td>12</td><td></td></tr> </table>	4		R		5		T		6		S		7		8		9		10		11		12	
Ammeter	Ammeter																																			
B	T																																			
Y	R																																			
R	S																																			
4																																				
R																																				
5																																				
T																																				
6																																				
S																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				
Name Plate Frame: 2 sizes for choice																																				
				Unit: mm																																

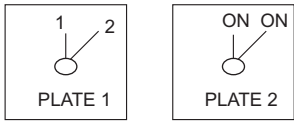
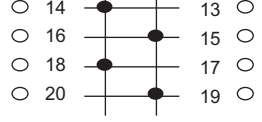
# CAM SWITCHES C-16 SERIES

**CONTACT RATING: 16A 300VAC**

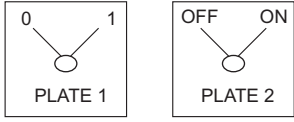
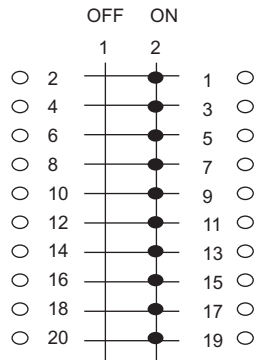
Change-over switches without "OFF" 90° switching

Code No.	Function	Stage	Name Plate	Connection Diagram
CA-001	1 pole	1		
CA-002	2 pole	2		
CA-003	3 pole	3		
CA-004	4 pole	4		
CA-005	5 pole	5		

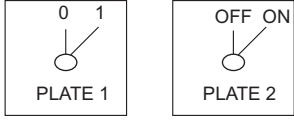
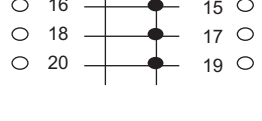
Change-over switches without "OFF" 45° switching

CA-013	1 pole	1		
CA-014	2 pole	2		
CA-015	3 pole	3		
CA-016	4 pole	4		
CA-017	5 pole	5		

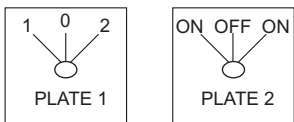
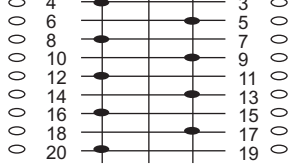
ON/OFF switches 90° switching

CA-026	2 pole	1		
CA-027	3 pole	2		
CA-028	4 pole	2		
CA-029	5 pole	3		
CA-030	6 pole	3		
CA-031	7 pole	4		
CA-032	8 pole	4		
CA-033	9 pole	5		
CA-034	10 pole	5		

ON/OFF switches 45° switching

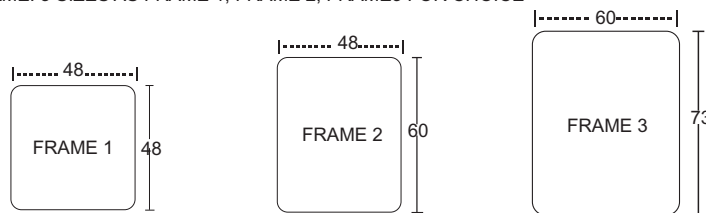
CA-098	2 pole	1		
CA-099	3 pole	2		
CA-100	4 pole	2		
CA-101	5 pole	3		
CA-102	6 pole	3		
CA-103	7 pole	4		
CA-104	8 pole	4		
CA-105	9 pole	5		
CA-106	10 pole	5		

Change-over switches with center "OFF" 45° switching

CA-109	1 pole	1		
CA-110	2 pole	2		
CA-111	3 pole	3		
CA-112	4 pole	4		
CA-113	5 pole	5		

NAME PLATE FRAME: 3 SIZES AS FRAME 1, FRAME 2, FRAME3 FOR CHOICE

Unit: mm





# CAM SWITCHES C-32 SERIES

**CONTACT RATING: 32A 600VAC**

Change-over switches without "OFF" 90° switching

Code No.	Function	Stage	Name Plate	Connection Diagram
C32-001	1 pole	1		
C32-002	2 pole	2		
C32-003	3 pole	3		
C32-004	4 pole	4		
C32-005	5 pole	5		

Change-over switches without "OFF" 60° switching

C32-013	1 pole	1		
C32-014	2 pole	2		
C32-015	3 pole	3		
C32-016	4 pole	4		
C32-017	5 pole	5		

ON/OFF switches 90° switching

C32-026	2 pole	1		
C32-027	3 pole	2		
CA-028	4 pole	2		
CA-029	5 pole	3		
C32-030	6 pole	3		
C32-031	7 pole	4		
C32-032	8 pole	4		
C32-033	9 pole	5		
C32-034	10 pole	5		

ON/OFF switches 60° switching

C32-098	2 pole	1		
C32-099	3 pole	2		
C32-100	4 pole	2		
C32-101	5 pole	3		
C32-102	6 pole	3		
C32-103	7 pole	4		
C32-104	8 pole	4		
C32-105	9 pole	5		
C32-106	10 pole	5		

Change-over switches with center "OFF" 60° switching

C32-109	1 pole	1		
C32-110	2 pole	2		
C32-111	3 pole	3		
C32-112	4 pole	4		
C32-113	5 pole	5		

Motor Reversing Switches

C32-117	3 pole	3		
---------	--------	---	--	--

NAME PLATE FRAME SIZE: 64X64mm

<http://www.suns-usa.com> Ph. 1-781-652-8305  
Email: [info@suns-usa.com](mailto:info@suns-usa.com) Fax. 1-781-862-5084



# CAM SWITCHES C-63 SERIES

**CONTACT RATING: 63A 600VAC**

Change-over switches without "OFF" 90° switching

Code No.	Function	Stage	Name Plate	Connection Diagram
C63-001	1 pole	1		
C63-002	2 pole	2		
C63-003	3 pole	3		
C63-004	4 pole	4		
C63-005	5 pole	5		

Change-over switches without "OFF" 60° switching

C63-013	1 pole	1		
C63-014	2 pole	2		
C63-015	3 pole	3		
C63-016	4 pole	4		
C63-017	5 pole	5		

ON/OFF switches 90° switching

C63-026	2 pole	1		
C63-027	3 pole	2		
CA-028	4 pole	2		
CA-029	5 pole	3		
C63-030	6 pole	3		
C63-031	7 pole	4		
C63-032	8 pole	4		
C63-033	9 pole	5		
C63-034	10 pole	5		

ON/OFF switches 60° switching

C63-098	2 pole	1		
C63-099	3 pole	2		
C63-100	4 pole	2		
C63-101	5 pole	3		
C63-102	6 pole	3		
C63-103	7 pole	4		
C63-104	8 pole	4		
C63-105	9 pole	5		
C63-106	10 pole	5		

Change-over switches with center "OFF" 60° switching

C63-109	1 pole	1		
C63-110	2 pole	2		
C63-111	3 pole	3		
C63-112	4 pole	4		
C63-113	5 pole	5		

Motor Reversing Switches

C63-117	3 pole	3		
---------	--------	---	--	--

NAME PLATE FRAME SIZE: 64X64mm

<http://www.suns-usa.com> Ph. 1-781-652-8305  
 Email: [info@suns-usa.com](mailto:info@suns-usa.com) Fax. 1-781-862-5084