

## control switch catalogue

This catalogue contains the most popular Kraus & Naimer Blue Line switches including our range of Off/On switches, Changeover switches and Step switches, together with Push Buttons and Pilot Lights.

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

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# OFF / ON SWITCHES



## 1 to 8 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position (other options available)

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>							
20A	1	CA10 A200-620 FT2	CA10 A200-600 FT1				
25A	1	CA20 A200-620 FT2	CA20 A200-600 FT1				
32A	1	CA25 A200-620 FT2	CA25 A200-600 FT1				
<b>Two Pole</b>							
20A	1	CA10 A201-620 FT2	CA10 A201-600 FT1				
25A	1	CA20 A201-620 FT2	CA20 A201-600 FT1				
32A	1	CA25 A201-620 FT2	CA25 A201-600 FT1				
<b>Three pole</b>							
20A	2	CA10 A202-620 FT2	CA10 A202-600 FT1				
25A	2	CA20 A202-620 FT2	CA20 A202-600 FT1				
32A	2	CA25 A202-620 FT2	CA25 A202-600 FT1				
<b>Four pole</b>							
20A	2	CA10 A203-620 FT2	CA10 A203-600 FT1				
25A	2	CA20 A203-620 FT2	CA20 A203-600 FT1				
32A	2	CA25 A203-620 FT2	CA25 A203-600 FT1				
<b>Six pole</b>							
20A	3	CA10 A342-620 FT2	CA10 A342-600 FT1				
25A	3	CA20 A342-620 FT2	CA20 A342-600 FT1				
32A	3	CA25 A342-620 FT2	CA25 A342-600 FT1				
<b>Eight pole</b>							
20A	4	CA10 A344-620 FT2	CA10 A344-600 FT1				
25A	4	CA20 A344-620 FT2	CA20 A344-600 FT1				
32A	4	CA25 A344-620 FT2	CA25 A344-600 FT1				
<b>Single Hole Mounting With Faceplate</b>							
							
<b>Single Hole Mounting Without Faceplate</b>							
							
<b>4 Hole Mounting</b>							
							
<b>Key Operator - Single Hole Mounting With Faceplate</b>							
							
<b>Key Operator - Single Hole Mounting Without Faceplate</b>							
							

# CHANGEOVER WITH OFF

## 1 to 8 Pole - SIDE ACCESS TERMINALS



- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)



















le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
Single pole	Order code	Order code	Order code	Order code	Order code	Order code
20A	1	CA10 A210-620 FT2	CA10 A210-600 FT1	CA10 A210-620 E	CA10 A210-620 FT2 V750D/3H	CA10 A210-600 FT1 V750D/3H
25A	1	CA20 A210-620 FT2	CA20 A210-600 FT1	CA20 A210-620 E	CA20 A210-620 FT2 V750D/3H	CA20 A210-600 FT1 V750D/3H
32A	1	CA25 A210-620 FT2	CA25 A210-600 FT1	CA25 A210-620 E	CA25 A210-620 FT2 V750D/3H	CA25 A210-600 FT1 V750D/3H
<b>Two pole</b>						
20A	2	CA10 A211-620 FT2	CA10 A211-600 FT1	CA10 A211-620 E	CA10 A211-620 FT2 V750D/3H	CA10 A211-600 FT1 V750D/3H
25A	2	CA20 A211-620 FT2	CA20 A211-600 FT1	CA20 A211-620 E	CA20 A211-620 FT2 V750D/3H	CA20 A211-600 FT1 V750D/3H
32A	2	CA25 A211-620 FT2	CA25 A211-600 FT1	CA25 A211-620 E	CA25 A211-620 FT2 V750D/3H	CA25 A211-600 FT1 V750D/3H
<b>Three pole</b>						
20A	3	CA10 A212-620 FT2	CA10 A212-600 FT1	CA10 A212-620 E	CA10 A212-620 FT2 V750D/3H	CA10 A212-600 FT1 V750D/3H
25A	3	CA20 A212-620 FT2	CA20 A212-600 FT1	CA20 A212-620 E	CA20 A212-620 FT2 V750D/3H	CA20 A212-600 FT1 V750D/3H
32A	3	CA25 A212-620 FT2	CA25 A212-600 FT1	CA25 A212-620 E	CA25 A212-620 FT2 V750D/3H	CA25 A212-600 FT1 V750D/3H
<b>Four pole</b>						
20A	4	CA10 A213-620 FT2	CA10 A213-600 FT1	CA10 A213-620 E	CA10 A213-620 FT2 V750D/3H	CA10 A213-600 FT1 V750D/3H
25A	4	CA20 A213-620 FT2	CA20 A213-600 FT1	CA20 A213-620 E	CA20 A213-620 FT2 V750D/3H	CA20 A213-600 FT1 V750D/3H
32A	4	CA25 A213-620 FT2	CA25 A213-600 FT1	CA25 A213-620 E	CA25 A213-620 FT2 V750D/3H	CA25 A213-600 FT1 V750D/3H
<b>Six pole</b>						
20A	6	CA10 A362-620 FT2	CA10 A362-600 FT1	CA10 A362-620 E	CA10 A362-620 FT2 V750D/3H	CA10 A362-600 FT1 V750D/3H
25A	6	CA20 A362-620 FT2	CA20 A362-600 FT1	CA20 A362-620 E	CA20 A362-620 FT2 V750D/3H	CA20 A362-600 FT1 V750D/3H
32A	6	CA25 A362-620 FT2	CA25 A362-600 FT1	CA25 A362-620 E	CA25 A362-620 FT2 V750D/3H	CA25 A362-600 FT1 V750D/3H
<b>Eight pole</b>						
20A	8	CA10 A364-620 FT2	CA10 A364-600 FT1	CA10 A364-620 E	CA10 A364-620 FT2 V750D/3H	CA10 A364-600 FT1 V750D/3H
25A	8	CA20 A364-620 FT2	CA20 A364-600 FT1	CA20 A364-620 E	CA20 A364-620 FT2 V750D/3H	CA20 A364-600 FT1 V750D/3H
32A	8	CA25 A364-620 FT2	CA25 A364-600 FT1	CA25 A364-620 E	CA25 A364-620 FT2 V750D/3H	CA25 A364-600 FT1 V750D/3H

# CHANGEOVER WITHOUT OFF

## 1 to 10 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in both positions (other options available)








le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code	Order code
<b>Single pole</b>							
20A	1	CA10 A220-600 FT2	CA10 A220-600 FT1				
25A	1	CA20 A220-600 FT2	CA20 A220-600 FT1				
32A	1	CA25 A220-600 FT2	CA25 A220-600 FT1				
<b>Two pole</b>							
20A	2	CA10 A221-600 FT2	CA10 A221-600 FT1				
25A	2	CA20 A221-600 FT2	CA20 A221-600 FT1				
32A	2	CA25 A221-600 FT2	CA25 A221-600 FT1				
<b>Three pole</b>							
20A	3	CA10 A222-600 FT2	CA10 A222-600 FT1				
25A	3	CA20 A222-600 FT2	CA20 A222-600 FT1				
32A	3	CA25 A222-600 FT2	CA25 A222-600 FT1				
<b>Four pole</b>							
20A	4	CA10 A223-600 FT2	CA10 A223-600 FT1				
25A	4	CA20 A223-600 FT2	CA20 A223-600 FT1				
32A	4	CA25 A223-600 FT2	CA25 A223-600 FT1				
<b>Five pole</b>							
20A	5	CA10 A369-600 FT2	CA10 A369-600 FT1				
25A	5	CA20 A369-600 FT2	CA20 A369-600 FT1				
<b>Six pole</b>							
20A	6	CA10 A370-600 FT2	CA10 A370-600 FT1				
25A	6	CA20 A370-600 FT2	CA20 A370-600 FT1				
<b>Eight pole</b>							
20A	8	CA10 A372-600 FT2	CA10 A372-600 FT1				
<b>Ten pole</b>							
20A	10	CA10 A374-600 FT2	CA10 A374-600 FT1				

### 3 STEP WITHOUT OFF

#### 1 to 6 Pole - SIDE ACCESS TERMINALS



<ul style="list-style-type: none"> <li>Single hole mounting IP66</li> <li>4 hole mounting IP40</li> <li>Fingerproof Terminals</li> <li>Supplied with open terminals</li> <li>Captive plus/minus terminal screws</li> <li>Key removable in all positions (other options available)</li> </ul>	Single Hole Mounting With Faceplate 	Single Hole Mounting Without Faceplate 	4 Hole Mounting 	Key Operator - Single Hole Mounting With Faceplate 	Key Operator - Single Hole Mounting Without Faceplate 
le AC - 21A	No of stages	Order code	Order code	Order code	Order code
<b>Single pole</b>					
20A	2	CA10 A230-600 FT2	CA10 A230-600 E	CA10 A230-600 FT2 V750D/3J	CA10 A230-600 FT1 V750D/3J
25A	2	CA20 A230-600 FT2	CA20 A230-600 E	CA20 A230-600 FT2 V750D/3J	CA20 A230-600 FT1 V750D/3J
32A	2	CA25 A230-600 FT2	CA25 A230-600 E	CA25 A230-600 FT2 V750D/3J	CA25 A230-600 FT1 V750D/3J
<b>Two pole</b>					
20A	3	CA10 A250-600 FT2	CA10 A250-600 E	CA10 A250-600 FT2 V750D/3J	CA10 A250-600 FT1 V750D/3J
25A	3	CA20 A250-600 FT2	CA20 A250-600 E	CA20 A250-600 FT2 V750D/3J	CA20 A250-600 FT1 V750D/3J
32A	3	CA25 A250-600 FT2	CA25 A250-600 E	CA25 A250-600 FT2 V750D/3J	CA25 A250-600 FT1 V750D/3J
<b>Three pole</b>					
20A	5	CA10 A270-600 FT2	CA10 A270-600 E	CA10 A270-600 FT2 V750D/3J	CA10 A270-600 FT1 V750D/3J
25A	5	CA20 A270-600 FT2	CA20 A270-600 E	CA20 A270-600 FT2 V750D/3J	CA20 A270-600 FT1 V750D/3J
32A	5	CA25 A270-600 FT2	CA25 A270-600 E	CA25 A270-600 FT2 V750D/3J	CA25 A270-600 FT1 V750D/3J
<b>Four pole</b>					
20A	6	CA10 A476-600 FT2	CA10 A476-600 E	CA10 A476-600 FT2 V750D/3J	CA10 A476-600 FT1 V750D/3J
25A	6	CA20 A476-600 FT2	CA20 A476-600 E	CA20 A476-600 FT2 V750D/3J	CA20 A476-600 FT1 V750D/3J
32A	6	CA25 A476-600 FT2	CA25 A476-600 E	CA25 A476-600 FT2 V750D/3J	CA25 A476-600 FT1 V750D/3J
<b>Five pole</b>					
20A	8	CA10 A484-600 FT2	CA10 A484-600 E	CA10 A484-600 FT2 V750D/3J	CA10 A484-600 FT1 V750D/3J
25A	8	CA20 A484-600 FT2	CA20 A484-600 E	CA20 A484-600 FT2 V750D/3J	CA20 A484-600 FT1 V750D/3J
32A	8	CA25 A484-600 FT2	CA25 A484-600 E	CA25 A484-600 FT2 V750D/3J	CA25 A484-600 FT1 V750D/3J
<b>Six pole</b>					
20A	9	CA10 A489-600 FT2	CA10 A489-600 E	CA10 A489-600 FT2 V750D/3J	CA10 A489-600 FT1 V750D/3J
25A	9	CA20 A489-600 FT2	CA20 A489-600 E	CA20 A489-600 FT2 V750D/3J	CA20 A489-600 FT1 V750D/3J
32A	9	CA25 A489-600 FT2	CA25 A489-600 E	CA25 A489-600 FT2 V750D/3J	CA25 A489-600 FT1 V750D/3J

# 4 STEP WITHOUT OFF

## 1 to 4 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single pole</b>						
20A	2	CA10 A231-600 FT2	CA10 A231-600 FT1	CA10 A231-600 E	CA10 A231-600 FT2 V750D/3J	CA10 A231-600 FT1 V750D/3J
25A	2	CA20 A231-600 FT2	CA20 A231-600 FT1	CA20 A231-600 E	CA20 A231-600 FT2 V750D/3J	CA20 A231-600 FT1 V750D/3J
32A	2	CA25 A231-600 FT2	CA25 A231-600 FT1	CA25 A231-600 E	CA25 A231-600 FT2 V750D/3J	CA25 A231-600 FT1 V750D/3J
<b>Two pole</b>						
20A	4	CA10 A251-600 FT2	CA10 A251-600 FT1	CA10 A251-600 E	CA10 A251-600 FT2 V750D/3J	CA10 A251-600 FT1 V750D/3J
25A	4	CA20 A251-600 FT2	CA20 A251-600 FT1	CA20 A251-600 E	CA20 A251-600 FT2 V750D/3J	CA20 A251-600 FT1 V750D/3J
32A	4	CA25 A251-600 FT2	CA25 A251-600 FT1	CA25 A251-600 E	CA25 A251-600 FT2 V750D/3J	CA25 A251-600 FT1 V750D/3J
<b>Three pole</b>						
20A	6	CA10 A271-600 FT2	CA10 A271-600 FT1	CA10 A271-600 E	CA10 A271-600 FT2 V750D/3J	CA10 A271-600 FT1 V750D/3J
25A	6	CA20 A271-600 FT2	CA20 A271-600 FT1	CA20 A271-600 E	CA20 A271-600 FT2 V750D/3J	CA20 A271-600 FT1 V750D/3J
32A	6	CA25 A271-600 FT2	CA25 A271-600 FT1	CA25 A271-600 E	CA25 A271-600 FT2 V750D/3J	CA25 A271-600 FT1 V750D/3J
<b>Four pole</b>						
20A	8	CA10 A477-600 FT2	CA10 A477-600 FT1	CA10 A477-600 E	CA10 A477-600 FT2 V750D/3J	CA10 A477-600 FT1 V750D/3J
25A	8	CA20 A477-600 FT2	CA20 A477-600 FT1	CA20 A477-600 E	CA20 A477-600 FT2 V750D/3J	CA20 A477-600 FT1 V750D/3J
32A	8	CA25 A477-600 FT2	CA25 A477-600 FT1	CA25 A477-600 E	CA25 A477-600 FT2 V750D/3J	CA25 A477-600 FT1 V750D/3J

Key Operator - Single Hole Mounting Without Faceplate



Key Operator - Single Hole Mounting With Faceplate



4 Hole Mounting



Single Hole Mounting Without Faceplate



Single Hole Mounting With Faceplate



## 5 STEP WITHOUT OFF

### 1 to 3 Pole - SIDE ACCESS TERMINALS



- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	3	CA10 A232-600 FT2	CA10 A232-600 E	CA10 A232-600 FT1	CA10 A232-600 FT1	CA10 A232-600 FT1 V750D/3J
25A	3	CA20 A232-600 FT2	CA20 A232-600 E	CA20 A232-600 FT1	CA20 A232-600 FT1	CA20 A232-600 FT1 V750D/3J
32A	3	CA25 A232-600 FT2	CA25 A232-600 E	CA25 A232-600 FT1	CA25 A232-600 FT1	CA25 A232-600 FT1 V750D/3J
<b>Two Pole</b>						
20A	5	CA10 A252-600 FT2	CA10 A252-600 E	CA10 A252-600 FT1	CA10 A252-600 FT1	CA10 A252-600 FT1 V750D/3J
25A	5	CA20 A252-600 FT2	CA20 A252-600 E	CA20 A252-600 FT1	CA20 A252-600 FT1	CA20 A252-600 FT1 V750D/3J
32A	5	CA25 A252-600 FT2	CA25 A252-600 E	CA25 A252-600 FT1	CA25 A252-600 FT1	CA25 A252-600 FT1 V750D/3J
<b>Three pole</b>						
20A	8	CA10 A272-600 FT2	CA10 A272-600 E	CA10 A272-600 FT1	CA10 A272-600 FT1	CA10 A272-600 FT1 V750D/3J
25A	8	CA20 A272-600 FT2	CA20 A272-600 E	CA20 A272-600 FT1	CA20 A272-600 FT1	CA20 A272-600 FT1 V750D/3J
32A	8	CA25 A272-600 FT2	CA25 A272-600 E	CA25 A272-600 FT1	CA25 A272-600 FT1	CA25 A272-600 FT1 V750D/3J

Single Hole Mounting With Faceplate



Single Hole Mounting Without Faceplate



4 Hole Mounting



Key Operator - Single Hole Mounting With Faceplate



Key Operator - Single Hole Mounting Without Faceplate



## 6 STEP WITHOUT OFF

### 1 to 3 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	3	CA10 A233-600 FT2	CA10 A233-600 FT1	CA10 A233-600 E	CA10 A233-600 FT2 V750D/3J	CA10 A233-600 FT1 V750D/3J
25A	3	CA20 A233-600 FT2	CA20 A233-600 FT1	CA20 A233-600 E	CA20 A233-600 FT2 V750D/3J	CA20 A233-600 FT1 V750D/3J
32A	3	CA25 A233-600 FT2	CA25 A233-600 FT1	CA25 A233-600 E	CA25 A233-600 FT2 V750D/3J	CA25 A233-600 FT1 V750D/3J
<b>Two Pole</b>						
20A	6	CA10 A253-600 FT2	CA10 A253-600 FT1	CA10 A253-600 E	CA10 A253-600 FT2 V750D/3J	CA10 A253-600 FT1 V750D/3J
25A	6	CA20 A253-600 FT2	CA20 A253-600 FT1	CA20 A253-600 E	CA20 A253-600 FT2 V750D/3J	CA20 A253-600 FT1 V750D/3J
32A	6	CA25 A253-600 FT2	CA25 A253-600 FT1	CA25 A253-600 E	CA25 A253-600 FT2 V750D/3J	CA25 A253-600 FT1 V750D/3J
<b>Three pole</b>						
20A	9	CA10 A273-600 FT2	CA10 A273-600 FT1	CA10 A273-600 E	CA10 A273-600 FT2 V750D/3J	CA10 A273-600 FT1 V750D/3J
25A	9	CA20 A273-600 FT2	CA20 A273-600 FT1	CA20 A273-600 E	CA20 A273-600 FT2 V750D/3J	CA20 A273-600 FT1 V750D/3J
32A	9	CA25 A273-600 FT2	CA25 A273-600 FT1	CA25 A273-600 E	CA25 A273-600 FT2 V750D/3J	CA25 A273-600 FT1 V750D/3J

Key Operator - Single Hole Mounting Without Faceplate



Key Operator - Single Hole Mounting With Faceplate



4 Hole Mounting



Single Hole Mounting Without Faceplate



Single Hole Mounting With Faceplate



## 2 STEP WITH OFF

### 1 to 4 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position (other options available)



le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
Order code	Order code	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	1	CA10 A240-620 FT2	CA10 A240-600 FT1	CA10 A240-620 E	CA10 A240-620 FT2 V750D/3D	CA10 A240-600 FT1 V750D/3D
<b>Two Pole</b>						
20A	2	CA10 A260-620 FT2	CA10 A260-600 FT1	CA10 A260-620 E	CA10 A260-620 FT2 V750D/3D	CA10 A260-600 FT1 V750D/3D
<b>Three pole</b>						
20A	3	CA10 A280-620 FT2	CA10 A280-600 FT1	CA10 A280-620 E	CA10 A280-620 FT2 V750D/3D	CA10 A280-600 FT1 V750D/3D
<b>Four pole</b>						
20A	4	CA10 A480-620 FT2	CA10 A480-600 FT1	CA10 A480-620 E	CA10 A480-620 FT2 V750D/3D	CA10 A480-600 FT1 V750D/3D

## 3 STEP WITH OFF

### 1 to 4 Pole - SIDE ACCESS TERMINALS



le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
Order code	Order code	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	2	CA10 A241-620 FT2	CA10 A241-600 FT1	CA10 A241-620 E	CA10 A241-620 FT2 V750D/3D	CA10 A241-600 FT1 V750D/3D
<b>Two Pole</b>						
20A	3	CA10 A261-620 FT2	CA10 A261-600 FT1	CA10 A261-620 E	CA10 A261-620 FT2 V750D/3D	CA10 A261-600 FT1 V750D/3D
<b>Three pole</b>						
20A	5	CA10 A281-620 FT2	CA10 A281-600 FT1	CA10 A281-620 E	CA10 A281-620 FT2 V750D/3D	CA10 A281-600 FT1 V750D/3D
<b>Four pole</b>						
20A	6	CA10 A481-620 FT2	CA10 A481-600 FT1	CA10 A481-620 E	CA10 A481-620 FT2 V750D/3D	CA10 A481-600 FT1 V750D/3D

## 4 STEP WITH OFF

### 1 to 4 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position only

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	2	CA10 A242-620 FT2	CA10 A242-620 FT1	CA10 A242-620 E	CA10 A242-620 FT2 V750D/3D	CA10 A242-600 FT1 V750D/3D
<b>Two Pole</b>						
20A	4	CA10 A262-620 FT2	CA10 A262-620 FT1	CA10 A262-620 E	CA10 A262-620 FT2 V750D/3D	CA10 A262-600 FT1 V750D/3D
<b>Three pole</b>						
20A	6	CA10 A282-620 FT2	CA10 A282-620 FT1	CA10 A282-620 E	CA10 A282-620 FT2 V750D/3D	CA10 A282-600 FT1 V750D/3D
<b>Four pole</b>						
20A	8	CA10 A482-620 FT2	CA10 A482-620 FT1	CA10 A482-620 E	CA10 A482-620 FT2 V750D/3D	CA10 A482-600 FT1 V750D/3D

## 5 STEP WITH OFF

### 1 to 3 Pole - SIDE ACCESS TERMINALS

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	3	CA10 A243-620 FT2	CA10 A243-620 FT1	CA10 A243-620 E	CA10 A243-620 FT2 V750D/3D	CA10 A243-600 FT1 V750D/3D
<b>Two Pole</b>						
20A	5	CA10 A263-620 FT2	CA10 A263-620 FT1	CA10 A263-620 E	CA10 A263-620 FT2 V750D/3D	CA10 A263-600 FT1 V750D/3D
<b>Three pole</b>						
20A	8	CA10 A283-620 FT2	CA10 A283-620 FT1	CA10 A283-620 E	CA10 A283-620 FT2 V750D/3D	CA10 A283-600 FT1 V750D/3D

## 6 STEP WITH OFF

### 1 to 3 Pole - SIDE ACCESS TERMINALS



<ul style="list-style-type: none"> <li>Single hole mounting IP66</li> <li>4 hole mounting IP40</li> <li>Fingerproof Terminals</li> <li>Supplied with open terminals</li> <li>Captive plus/minus terminal screws</li> </ul>	 <p>Single Hole Mounting With Faceplate</p>	 <p>Single Hole Mounting Without Faceplate</p>	 <p>4 Hole Mounting</p>
le AC - 21A	No of stages	Order code	Order code
Single Pole			
20A	3	CA10 A244-620 FT2	CA10 A244-620 E
Two Pole			
20A	6	CA10 A264-620 FT2	CA10 A264-620 E
Three pole			
20A	9	CA10 A284-620 FT2	CA10 A284-620 E

# DOUBLE THROW SPRING RETURN TO CENTRE OFF

## 1 to 3 Pole - SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position only



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
20A	1	CA10 A214-620 FT2	CA10 A214-620 FT1	CA10 A214-620 E	CA10 A214-620 FT2 V750D/3C	CA10 A214-600 FT1 V750D/3C
25A	1	CA20 A214-620 FT2	CA20 A214-600 FT1	CA20 A214-620 E	CA20 A214-620 FT2 V750D/3C	CA20 A214-600 FT1 V750D/3C
32A	1	CA25 A214-620 FT2	CA25 A214-600 FT1	CA25 A214-620 E	CA25 A214-620 FT2 V750D/3C	CA25 A214-600 FT1 V750D/3C
<b>Two Pole</b>						
20A	2	CA10 A215-620 FT2	CA10 A215-600 FT1	CA10 A215-620 E	CA10 A215-620 FT2 V750D/3C	CA10 A215-600 FT1 V750D/3C
25A	2	CA20 A215-620 FT2	CA20 A215-600 FT1	CA20 A215-620 E	CA20 A215-620 FT2 V750D/3C	CA20 A215-600 FT1 V750D/3C
32A	2	CA25 A215-620 FT2	CA25 A215-600 FT1	CA25 A215-620 E	CA25 A215-620 FT2 V750D/3C	CA25 A215-600 FT1 V750D/3C
<b>Three pole</b>						
20A	3	CA10 A216-620 FT2	CA10 A216-600 FT1	CA10 A216-620 E	CA10 A216-620 FT2 V750D/3C	CA10 A216-600 FT1 V750D/3C
25A	3	CA20 A216-620 FT2	CA20 A216-600 FT1	CA20 A216-620 E	CA20 A216-620 FT2 V750D/3C	CA20 A216-600 FT1 V750D/3C

Key Operator - Single Hole Mounting Without Faceplate



Key Operator - Single Hole Mounting With Faceplate



4 Hole Mounting



Single Hole Mounting Without Faceplate



Single Hole Mounting With Faceplate



## STOP-START SPRING RETURN TO CENTRE

### SIDE ACCESS TERMINALS



<ul style="list-style-type: none"> <li>Single hole mounting IP66</li> <li>4 hole mounting IP40</li> <li>Fingerproof Terminals</li> <li>Supplied with open terminals</li> <li>Captive plus/minus terminal screws</li> <li>Key removable at 12 o'clock position only</li> </ul>	<p>Single Hole Mounting With Faceplate</p> 	<p>Single Hole Mounting Without Faceplate</p> 	<p>4 Hole Mounting</p> 	<p>Key Operator - Single Hole Mounting With Faceplate</p> 	<p>Key Operator - Single Hole Mounting Without Faceplate</p> 
	<p><b>le AC - 21A</b>      <b>No of stages</b></p> <p><b>Single Pole</b></p> <p>20A                      1</p>	<p><b>Order code</b></p> <p>CA10 A176-600 FT2</p>	<p><b>Order code</b></p> <p>CA10 A176-600 FT1</p>	<p><b>Order code</b></p> <p>CA10 A176-600 E</p>	<p><b>Order code</b></p> <p>CA10 A176-600 FT2 V750D/3C</p>

### VOLTMETER SELECTOR

### SIDE ACCESS TERMINALS

<ul style="list-style-type: none"> <li>Single hole mounting IP66</li> <li>4 hole mounting IP40</li> <li>Fingerproof Terminals</li> <li>Supplied with open terminals</li> <li>Captive plus/minus terminal screws</li> </ul>	<p>Single Hole Mounting With Faceplate</p> 	<p>Single Hole Mounting Without Faceplate</p> 	<p>4 Hole Mounting</p> 	
	<p><b>le AC - 21A</b>      <b>No of stages</b></p> <p><b>3 Ph./Ph.</b></p> <p>20A                      2</p> <p><b>3 Ph./Ph. + Ph./N</b></p> <p>20A                      3</p>	<p><b>Order code</b></p> <p>CA10 A004-622 FT2</p>	<p><b>Order code</b></p> <p>CA10 A004-600 FT1</p>	<p><b>Order code</b></p> <p>CA10 A004-622 E</p>

# AMMETER SELECTOR

## SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof terminals
- Supplied with open terminals
- Captive plus/minus terminal screws

Single Hole Mounting  
With Faceplate



Single Hole Mounting  
Without Faceplate



4 Hole Mounting



le AC - 21A	No of stages	Order code	Order code	Order code
<b>1 Pole, 3 CTs</b>				
20A	3	CA10 A048-621 FT2	CA10 A048-600 FT1	CA10 A048-621 E
<b>1 Pole, 4 CTs</b>				
20A	4	CA10 A036-600 FT2	CA10 A036-600 FT1	CA10 A036-600 E
<b>2 Pole, 3 CTs or Direct</b>				
20A	5	CA10 A038-600 FT2	CA10 A038-600 FT1	CA10 A038-600 E



# MOTOR CONTROL

## SIDE ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position only



	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
le AC - 3	Order code	Order code	Order code	Order code	Order code
<b>3 Ph Motor Reversing</b>					
5.5 kW, 380 - 440V	CA10 A401-620 FT2	CA10 A401-600 FT1	CA10 A401-620 E	CA10 A401-620 FT2 V750D/3C	CA10 A401-600 FT1 V750D/3C
7.5 kW, 380 - 440V	CA20 A401-620 FT2	CA20 A401-600 FT1	CA20 A401-620 E	CA20 A401-620 FT2 V750D/3C	CA20 A401-600 FT1 V750D/3C
11 kW, 380 - 440V	CA25 A401-620 FT2	CA25 A401-600 FT1	CA25 A401-620 E	CA25 A401-620 FT2 V750D/3C	CA25 A401-600 FT1 V750D/3C
<b>2 Speed 3 Ph 1 Winding</b>					
5.5 kW, 380 - 440V	CA10 A441-620 FT2	CA10 A441-600 FT1	CA10 A441-620 E	CA10 A441-620 FT2 V750D/3C	CA10 A441-600 FT1 V750D/3C
7.5 kW, 380 - 440V	CA20 A441-620 FT2	CA20 A441-600 FT1	CA20 A441-620 E	CA20 A441-620 FT2 V750D/3C	CA20 A441-600 FT1 V750D/3C
11 kW, 380 - 440V	CA25 A441-620 FT2	CA25 A441-600 FT1	CA25 A441-620 E	CA25 A441-620 FT2 V750D/3C	CA25 A441-600 FT1 V750D/3C
<b>2 Speed 3 Ph 1 Winding + Reversing</b>					
5.5 kW, 380 - 440V	CA10 A442-620 FT2	CA10 A442-600 FT1	CA10 A442-620 E	CA10 A442-620 FT2 V750D/3C	CA10 A442-600 FT1 V750D/3C
7.5 kW, 380 - 440V	CA20 A442-620 FT2	CA20 A442-600 FT1	CA20 A442-620 E	CA20 A442-620 FT2 V750D/3C	CA20 A442-600 FT1 V750D/3C
11 kW, 380 - 440V	CA25 A442-620 FT2	CA25 A442-600 FT1	CA25 A442-620 E	CA25 A442-620 FT2 V750D/3C	CA25 A442-600 FT1 V750D/3C

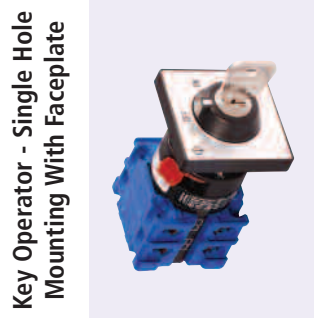
# OFF / ON SWITCHES



## 1 to 8 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position (other options available)

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	1	CG4 A200-620 FS2	CG4 A200-600 FS1	CG4 A200-620 E	CG4 A200-620 FS2 V750D/2C	CG4 A200-600 FS1 V750D/2C
20A	1	CH10 A200-620 FT2	CH10 A200-600 FT1	CH10 A200-620 E	CH10 A200-620 FT2 V750D/3C	CH10 A200-600 FT1 V750D/3C
<b>Two Pole</b>						
10A	1	CG4 A201-620 FS2	CG4 A201-600 FS1	CG4 A201-620 E	CG4 A201-620 FS2 V750D/2C	CG4 A201-600 FS1 V750D/2C
20A	1	CH10 A201-620 FT2	CH10 A201-600 FT1	CH10 A201-620 E	CH10 A201-620 FT2 V750D/3C	CH10 A201-600 FT1 V750D/3C
<b>Three pole</b>						
10A	2	CG4 A202-620 FS2	CG4 A202-600 FS1	CG4 A202-620 E	CG4 A202-620 FS2 V750D/2C	CG4 A202-600 FS1 V750D/2C
20A	2	CH10 A202-620 FT2	CH10 A202-600 FT1	CH10 A202-620 E	CH10 A202-620 FT2 V750D/3C	CH10 A202-600 FT1 V750D/3C
<b>Four pole</b>						
10A	2	CG4 A203-620 FS2	CG4 A203-600 FS1	CG4 A203-620 E	CG4 A203-620 FS2 V750D/2C	CG4 A203-600 FS1 V750D/2C
20A	2	CH10 A203-620 FT2	CH10 A203-600 FT1	CH10 A203-620 E	CH10 A203-620 FT2 V750D/3C	CH10 A203-600 FT1 V750D/3C
<b>Six pole</b>						
10A	3	CG4 A342-620 FS2	CG4 A342-600 FS1	CG4 A342-620 E	CG4 A342-620 FS2 V750D/2C	CG4 A342-600 FS1 V750D/2C
20A	3	CH10 A342-620 FT2	CH10 A342-600 FT1	CH10 A342-620 E	CH10 A342-620 FT2 V750D/3C	CH10 A342-600 FT1 V750D/3C
<b>Eight pole</b>						
10A	4	CG4 A344-620 FS2	CG4 A344-600 FS1	CG4 A344-620 E	CG4 A344-620 FS2 V750D/2C	CG4 A344-600 FS1 V750D/2C
20A	4	CH10 A344-620 FT2	CH10 A344-600 FT1	CH10 A344-620 E	CH10 A344-620 FT2 V750D/3C	CH10 A344-600 FT1 V750D/3C



# CHANGEOVER WITH OFF

## 1 to 8 Pole - REAR ACCESS TERMINALS



- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)





le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
		Order code	Order code	Order code	Order code	Order code
<b>Single pole</b>						
10A	1	CG4 A210-620 FS2	CG4 A210-600 FS1	CG4 A210-620 E	CG4 A210-620 FS2 V750D/2H	CG4 A210-600 FS1 V750D/2H
20A	1	CH10 A210-620 FT2	CH10 A210-600 FT1	CH10 A210-620 E	CH10 A210-620 FT2 V750D/3H	CH10 A210-600 FT1 V750D/3H
<b>Two pole</b>						
10A	2	CG4 A211-620 FS2	CG4 A211-600 FS1	CG4 A211-620 E	CG4 A211-620 FS2 V750D/2H	CG4 A211-600 FS1 V750D/2H
20A	2	CH10 A211-620 FT2	CH10 A211-600 FT1	CH10 A211-620 E	CH10 A211-620 FT2 V750D/3H	CH10 A211-600 FT1 V750D/3H
<b>Three pole</b>						
10A	3	CG4 A212-620 FS2	CG4 A212-600 FS1	CG4 A212-620 E	CG4 A212-620 FS2 V750D/2H	CG4 A212-600 FS1 V750D/2H
20A	3	CH10 A212-620 FT2	CH10 A212-600 FT1	CH10 A212-620 E	CH10 A212-620 FT2 V750D/3H	CH10 A212-600 FT1 V750D/3H
<b>Four pole</b>						
10A	4	CG4 A213-620 FS2	CG4 A213-600 FS1	CG4 A213-620 E	CG4 A213-620 FS2 V750D/2H	CG4 A213-600 FS1 V750D/2H
20A	4	CH10 A213-620 FT2	CH10 A213-600 FT1	CH10 A213-620 E	CH10 A213-620 FT2 V750D/3H	CH10 A213-600 FT1 V750D/3H
<b>Six pole</b>						
10A	6	CG4 A362-620 FS2	CG4 A362-600 FS1	CG4 A362-620 E	CG4 A362-620 FS2 V750D/2H	CG4 A362-600 FS1 V750D/2H
20A	6	CH10 A362-620 FT2	CH10 A362-600 FT1	CH10 A362-620 E	CH10 A362-620 FT2 V750D/3H	CH10 A362-600 FT1 V750D/3H
<b>Eight pole</b>						
10A	8	CG4 A364-620 FS2	CG4 A364-600 FS1	CG4 A364-620 E	CG4 A364-620 FS2 V750D/2H	CG4 A364-600 FS1 V750D/2H
20A	8	CH10 A364-620 FT2	CH10 A364-600 FT1	CH10 A364-620 E	CH10 A364-620 FT2 V750D/3H	CH10 A364-600 FT1 V750D/3H

# CHANGEOVER WITHOUT OFF

## 1 to 10 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in both positions (other options available)



le AC - 21A	No of stages	Order code	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
<b>Single pole</b>						
10A	1	CG4 A220-600 FS2				
20A	1	CH10 A220-600 FT2				
<b>Two pole</b>						
10A	2	CG4 A221-600 FS2				
20A	2	CH10 A221-600 FT2				
<b>Three pole</b>						
10A	3	CG4 A222-600 FS2				
20A	3	CH10 A222-600 FT2				
<b>Four pole</b>						
10A	4	CG4 A223-600 FS2				
20A	4	CH10 A223-600 FT2				
<b>Five pole</b>						
10A	5	CG4 A369-600 FS2				
20A	5	CH10 A369-600 FT2				
<b>Six pole</b>						
10A	6	CG4 A370-600 FS2				
20A	6	CH10 A370-600 FT2				
<b>Eight pole</b>						
10A	8	CG4 A372-600 FS2				
20A	8	CH10 A372-600 FT2				
<b>Ten pole</b>						
20A	10	CH10 A374-600 FT2				

### 3 STEP WITHOUT OFF

#### 1 to 6 Pole - REAR ACCESS TERMINALS



- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)

le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
		Order code	Order code	Order code	Order code	Order code
<b>Single pole</b>						
10A	2	CG4 A230-600 FS2	CG4 A230-600 FS1	CG4 A230-600 E	CG4 A230-600 FS2 V750D/2J	CG4 A230-600 FS1 V750D/2J
20A	2	CH10 A230-600 FT2	CH10 A230-600 FT1	CH10 A230-600 E	CH10 A230-600 FT2 V750D/3J	CH10 A230-600 FT1 V750D/3J
<b>Two pole</b>						
10A	4	CG4 A250-600 FS2	CG4 A250-600 FS1	CG4 A250-600 E	CG4 A250-600 FS2 V750D/2J	CG4 A250-600 FS1 V750D/2J
20A	4	CH10 A250-600 FT2	CH10 A250-600 FT1	CH10 A250-600 E	CH10 A250-600 FT2 V750D/3J	CH10 A250-600 FT1 V750D/3J
<b>Three pole</b>						
10A	4	CG4 A270-600 FS2	CG4 A270-600 FS1	CG4 A270-600 E	CG4 A270-600 FS2 V750D/2J	CG4 A270-600 FS1 V750D/2J
20A	4	CH10 A270-600 FT2	CH10 A270-600 FT1	CH10 A270-600 E	CH10 A270-600 FT2 V750D/3J	CH10 A270-600 FT1 V750D/3J
<b>Four pole</b>						
10A	6	CG4 A476-600 FS2	CG4 A476-600 FS1	CG4 A476-600 E	CG4 A476-600 FS2 V750D/2J	CG4 A476-600 FS1 V750D/2J
20A	6	CH10 A476-600 FT2	CH10 A476-600 FT1	CH10 A476-600 E	CH10 A476-600 FT2 V750D/3J	CH10 A476-600 FT1 V750D/3J
<b>Five pole</b>						
10A	8	CG4 A484-600 FS2	CG4 A484-600 FS1	CG4 A484-600 E	CG4 A484-600 FS2 V750D/2J	CG4 A484-600 FS1 V750D/2J
20A	8	CH10 A484-600 FT2	CH10 A484-600 FT1	CH10 A484-600 E	CH10 A484-600 FT2 V750D/3J	CH10 A484-600 FT1 V750D/3J
<b>Six pole</b>						
20A	9	CH10 A489-600 FT2	CH10 A489-600 FT1	CH10 A489-600 E	CH10 A489-600 FT2 V750D/3J	CH10 A489-600 FT1 V750D/3J

## 4 STEP WITHOUT OFF

### 1 to 4 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerprint Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)








le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate
Single pole	Order code	Order code	Order code	Order code	Order code	Order code
10A	CG4 A231-600 FS2	CG4 A231-600 FS1	CG4 A231-600 E	CG4 A231-600 FS2 V750D/2J	CG4 A231-600 FS1 V750D/2J	
20A	CH10 A231-600 FT2	CH10 A231-600 FT1	CH10 A231-600 E	CH10 A231-600 FT2 V750D/3J	CH10 A231-600 FT1 V750D/3J	
Two pole						
10A	CG4 A251-600 FS2	CG4 A251-600 FS1	CG4 A251-600 E	CG4 A251-600 FS2 V750D/2J	CG4 A251-600 FS1 V750D/2J	
20A	CH10 A251-600 FT2	CH10 A251-600 FT1	CH10 A251-600 E	CH10 A251-600 FT2 V750D/3J	CH10 A251-600 FT1 V750D/3J	
Three pole						
10A	CG4 A271-600 FS2	CG4 A271-600 FS1	CG4 A271-600 E	CG4 A271-600 FS2 V750D/2J	CG4 A271-600 FS1 V750D/2J	
20A	CH10 A271-600 FT2	CH10 A271-600 FT1	CH10 A271-600 E	CH10 A271-600 FT2 V750D/3J	CH10 A271-600 FT1 V750D/3J	
Four pole						
10A	CG4 A477-600 FS2	CG4 A477-600 FS1	CG4 A477-600 E	CG4 A477-600 FS2 V750D/2J	CG4 A477-600 FS1 V750D/2J	
20A	CH10 A477-600 FT2	CH10 A477-600 FT1	CH10 A477-600 E	CH10 A477-600 FT2 V750D/3J	CH10 A477-600 FT1 V750D/3J	

## 5 STEP WITHOUT OFF

### 1 to 3 Pole - REAR ACCESS TERMINALS



<ul style="list-style-type: none"> <li>• Single hole mounting IP66</li> <li>• 4 hole mounting IP40</li> <li>• Fingerprint Terminals</li> <li>• Supplied with open terminals</li> <li>• Captive plus/minus terminal screws</li> <li>• Key removable in all positions (other options available)</li> </ul>	Single Hole Mounting With Faceplate 	Single Hole Mounting Without Faceplate 	4 Hole Mounting 	Key Operator - Single Hole Mounting With Faceplate 	Key Operator - Single Hole Mounting Without Faceplate 
le AC - 21A	No of stages	Order code	Order code	Order code	Order code
<b>Single Pole</b>					
10A	3	CG4 A232-600 FS2	CG4 A232-600 E	CG4 A232-600 FS2 V750D/2J	CG4 A232-600 FS1 V750D/2J
20A	3	CH10 A232-600 FT2	CH10 A232-600 E	CH10 A232-600 FT2 V750D/3J	CH10 A232-600 FT1 V750D/3J
<b>Two Pole</b>					
10A	5	CG4 A252-600 FS2	CG4 A252-600 E	CG4 A252-600 FS2 V750D/2J	CG4 A252-600 FS1 V750D/2J
20A	5	CH10 A252-600 FT2	CH10 A252-600 E	CH10 A252-600 FT2 V750D/3J	CH10 A252-600 FT1 V750D/3J
<b>Three Pole</b>					
10A	8	CG4 A272-600 FS2	CG4 A272-600 E	CG4 A272-600 FS2 V750D/2J	CG4 A272-600 FS1 V750D/2J
20A	8	CH10 A272-600 FT2	CH10 A272-600 E	CH10 A272-600 FT2 V750D/3J	CH10 A272-600 FT1 V750D/3J

## 6 STEP WITHOUT OFF

### 1 to 3 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in all positions (other options available)



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	3	CG4 A233-600 FS2	CG4 A233-600 FS1	CG4 A233-600 E	CG4 A233-600 FS2 V750D/2J	CG4 A233-600 FS1 V750D/2J
20A	3	CH10 A233-600 FT2	CH10 A233-600 FT1	CH10 A233-600 E	CH10 A233-600 FT2 V750D/3J	CH10 A233-600 FT1 V750D/3J
<b>Two Pole</b>						
10A	6	CG4 A253-600 FS2	CG4 A253-600 FS1	CG4 A253-600 E	CG4 A253-600 FS2 V750D/2J	CG4 A253-600 FS1 V750D/2J
20A	6	CH10 A253-600 FT2	CH10 A253-600 FT1	CH10 A253-600 E	CH10 A253-600 FT2 V750D/3J	CH10 A253-600 FT1 V750D/3J
<b>Three Pole</b>						
20A	9	CH10 A273-600 FT2	CH10 A273-600 FT1	CH10 A273-600 E	CH10 A273-600 FT2 V750D/3J	CH10 A273-600 FT1 V750D/3J

## 2 STEP WITH OFF



### 1 to 2 Pole - REAR ACCESS TERMINALS

- Key removable in Off position only

le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	1	CG4 A240-620 FS2	CG4 A240-600 FS1	CG4 A240-620 E	CG4 A240-620 FS2 V750D/2D	CG4 A240-600 FS1 V750D/2D
20A	1	CH10 A240-620 FT2	CH10 A240-600 FT1	CH10 A240-620 E	CH10 A240-620 FT2 V750D/3D	CH10 A240-600 FT1 V750D/3D
<b>Two Pole</b>						
10A	2	CG4 A260-620 FS2	CG4 A260-600 FS1	CG4 A260-620 E	CG4 A260-620 FS2 V750D/2D	CG4 A260-600 FS1 V750D/2D
20A	2	CH10 A260-620 FT2	CH10 A260-600 FT1	CH10 A260-620 E	CH10 A260-620 FT2 V750D/3D	CH10 A260-600 FT1 V750D/3D

Issue 1

Direct Sales Line: 01635 262626

### 3 STEP WITH OFF

#### 1 to 2 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position only



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	2	CG4 A241-620 FS2	CG4 A241-620 FS1	CG4 A241-620 E	CG4 A241-620 FS2 V750D/2D	CG4 A241-600 FS1 V750D/2D
20A	2	CH10 A241-620 FT2	CH10 A241-600 FT1	CH10 A241-620 E	CH10 A241-620 FT2 V750D/3D	CH10 A241-600 FT1 V750D/3D
<b>Two Pole</b>						
10A	3	CG4 A261-620 FS2	CG4 A261-600 FS1	CG4 A261-620 E	CG4 A261-620 FS2 V750D/2D	CG4 A261-600 FS1 V750D/2D
20A	3	CH10 A261-620 FT2	CH10 A261-600 FT1	CH10 A261-620 E	CH10 A261-620 FT2 V750D/3D	CH10 A261-600 FT1 V750D/3D

### 4 STEP WITH OFF

#### 1 to 2 Pole - REAR ACCESS TERMINALS



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	2	CG4 A242-620 FS2	CG4 A242-600 FS1	CG4 A242-620 E	CG4 A242-620 FS2 V750D/2D	CG4 A242-600 FS1 V750D/2D
20A	2	CH10 A242-620 FT2	CH10 A242-600 FT1	CH10 A242-620 E	CH10 A242-620 FT2 V750D/3D	CH10 A242-600 FT1 V750D/3D
<b>Two Pole</b>						
10A	4	CG4 A262-620 FS2	CG4 A262-600 FS1	CG4 A262-620 E	CG4 A262-620 FS2 V750D/2D	CG4 A262-600 FS1 V750D/2D
20A	4	CH10 A262-620 FT2	CH10 A262-600 FT1	CH10 A262-620 E	CH10 A262-620 FT2 V750D/3D	CH10 A262-600 FT1 V750D/3D

## 5 STEP WITH OFF

### 1 to 2 Pole - REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws
- Key removable in Off position only



le AC - 21A	No of stages	Order code	Order code	Order code	Order code	Order code
<b>Single Pole</b>						
10A	3	CG4 A243-620 FS2	CG4 A243-620 E	CG4 A243-600 FS1	CG4 A243-600 FS1 V750D/2D	CG4 A243-600 FS1 V750D/2D
20A	3	CH10 A243-620 FT2	CH10 A243-620 E	CH10 A243-600 FT1	CH10 A243-620 FT2 V750D/3D	CH10 A243-600 FT1 V750D/3D
<b>Two Pole</b>						
10A	5	CG4 A263-620 FS2	CG4 A263-620 E	CG4 A263-600 FS1	CG4 A263-620 FS2 V750D/2D	CG4 A263-600 FS1 V750D/2D
20A	5	CH10 A263-620 FT2	CH10 A263-620 E	CH10 A263-600 FT1	CH10 A263-620 FT2 V750D/3D	CH10 A263-600 FT1 V750D/3D

## 6 STEP WITH OFF

### 1 to 2 Pole - REAR ACCESS TERMINALS



le AC - 21A	No of stages	Order code	Order code	Order code	Order code
<b>Single Pole</b>					
10A	3	CG4 A244-620 FS2	CG4 A244-620 E	CG4 A244-600 FS1	CG4 A244-620 E
20A	3	CH10 A244-620 FT2	CH10 A244-620 E	CH10 A244-600 FT1	CH10 A244-620 E
<b>Two Pole</b>					
10A	6	CG4 A264-620 FS2	CG4 A264-620 E	CG4 A264-600 FS1	CG4 A264-620 E
20A	6	CH10 A264-620 FT2	CH10 A264-620 E	CH10 A264-600 FT1	CH10 A264-620 E

# DOUBLE THROW SPRING RETURN TO CENTRE OFF

## 1 to 3 Pole - REAR ACCESS TERMINALS



le AC - 21A	No of stages	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting	Key Operator - Single Hole Mounting With Faceplate	Key Operator - Single Hole Mounting Without Faceplate	Order code
<ul style="list-style-type: none"> <li>• Single hole mounting IP66</li> <li>• 4 hole mounting IP40</li> <li>• Fingerproof Terminals</li> <li>• Supplied with open terminals</li> <li>• Captive plus/minus terminal screws</li> <li>• Key removable in 12 o'clock position only</li> </ul>							
<b>Single Pole</b>							
10A	1	CG4 A214-620 FS2	CG4 A214-600 FS1	CG4 A214-620 E	CG4 A214-620 FS2 V750D/2C	CG4 A214-600 FS1 V750D/2C	CG4 A214-600 FS1 V750D/2C
20A	1	CH10 A214-620 FT2	CH10 A214-600 FT1	CH10 A214-620 E	CH10 A214-620 FT2 V750D/3C	CH10 A214-600 FT1 V750D/3C	CH10 A214-600 FT1 V750D/3C
<b>Two Pole</b>							
10A	2	CG4 A215-620 FS2	CG4 A215-600 FS1	CG4 A215-620 E	CG4 A215-620 FS2 V750D/2C	CG4 A215-600 FS1 V750D/2C	CG4 A215-600 FS1 V750D/2C
20A	2	CH10 A215-620 FT2	CH10 A215-600 FT1	CH10 A215-620 E	CH10 A215-620 FT2 V750D/3C	CH10 A215-600 FT1 V750D/3C	CH10 A215-600 FT1 V750D/3C
<b>Three pole</b>							
10A	3	CG4 A216-620 FS2	CG4 A216-600 FS1	CG4 A216-620 E	CG4 A216-620 FS2 V750D/2C	CG4 A216-600 FS1 V750D/2C	CG4 A216-600 FS1 V750D/2C
20A	3	CH10 A216-620 FT2	CH10 A216-600 FT1	CH10 A216-620 E	CH10 A216-620 FT2 V750D/3C	CH10 A216-600 FT1 V750D/3C	CH10 A216-600 FT1 V750D/3C

# VOLTMETER SELECTOR

## REAR ACCESS TERMINALS

- Single hole mounting IP66
- 4 hole mounting IP40
- Fingerproof Terminals
- Supplied with open terminals
- Captive plus/minus terminal screws

	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting
<b>le AC - 21A</b>	<b>Order code</b>	<b>Order code</b>	<b>Order code</b>
<b>3 Ph./Ph.</b>			
10A	CG4 A004-622 FS2	CG4 A004-600 FS1	CG4 A004-622 E
20A	CH10 A004-622 FT2	CH10 A004-600 FT1	CH10 A004-622 E
<b>3 Ph./Ph. + Ph./N</b>			
10A	CG4 A007-622 FS2	CG4 A007-600 FS1	CG4 A007-622 E
20A	CH10 A007-622 FT2	CH10 A007-600 FT1	CH10 A007-622 E

## AMMETER SELECTOR

## REAR ACCESS TERMINALS

	Single Hole Mounting With Faceplate	Single Hole Mounting Without Faceplate	4 Hole Mounting
<b>le AC - 21A</b>	<b>Order code</b>	<b>Order code</b>	<b>Order code</b>
<b>1 Pole, 3 CTs</b>			
10A	CG4 A048-621 FS2	CG4 A048-600 FS1	CG4 A048-621 E
20A	CH10 A048-621 FT2	CH10 A048-600 FT1	CH10 A048-621 E
<b>1 Pole, 4 CTs</b>			
10A	CG4 A036-600 FS2	CG4 A036-600 FS1	CG4 A036-600 E
20A	CH10 A036-600 FT2	CH10 A036-600 FT1	CH10 A036-600 E
<b>2 Pole, 3 CTs or Direct</b>			
10A	CG4 A038-600 FS2	CG4 A038-600 FS1	CG4 A038-600 E
20A	CH10 A038-600 FT2	CH10 A038-600 FT1	CH10 A038-600 E

## STANDARD MOUNTING OPTIONS & OPTIONAL EXTRAS

	Standard Mounting Options					Optional Extras	
	Panel Mounting 2/4 hole 	Base Mounting 	Panel Mounting with Larger Handle and Escutcheon Plate 	Protective Rear Cover Front Protection, IP40 	Padlockable Handles Suitable for 2 padlocks 	Padlockable Handles Suitable for 4 padlocks 	
	Front Protection, IP66	Front Protection, IP40	Front Protection, IP40	Protection for terminals, IP30 For CA10, 1 - 6 Stages	Available with red handle/yellow escutcheon or black handle/silver escutcheon. When ordering please specify required colour and locked position		
<b>OPTIONAL CODE NO.</b>	<b>EF</b>	<b>VE</b> (with baseplate)	<b>VE1</b> (with snap-on DIN track baseplate)	<b>EC</b>	<b>V840A</b>	<b>V845</b>	
Suitable for switch types:							
<b>CG4</b>	•						
<b>CH10</b>	•	•	•		•	•	
<b>CA10</b>	•	•	•	•	•	•	
<b>CA20</b>	•	•	•		•	•	
<b>CA25</b>	•	•	•		•	•	

**TECHNICAL DATA**

Selection in accordance with: IEC 60947, BS EN 60947

Switch Type	Thermal Rating	Insulation Voltage, U <sub>i</sub>	Rated Operating Current, I <sub>e</sub>		Operational Power, 3 ph.						Short Circuit Protection	Thermal Capacity		
			AC-15	AC-21A	AC-3		AC23A		Max. Fuse gI/g char.	single core/ stranded wire		Flexible wire, with sleeve		
	Open rating		110V	380-415V	690V	220-240V, 1 ph.	220-240V, 3 ph.	220-240V, 1 ph.		220-240V, 3 ph.	380-415V, 1 ph.		mm <sup>2</sup>	mm <sup>2</sup>
	A	V	A	A	A	kW						A		
<b>CG4</b>	10	440	2.5	2.5	1.5	10	0.55	1.5	2.2	0.75	1.8	3	2x1.5	-
<b>CH10</b>	20	690	5	5	4	20	2.2	3	5.5	2.5	3.7	7.5	2x4	2x2.5
<b>CA10</b>	20	690	5	5	4	20	2.2	3	5.5	2.5	3.7	7.5	2x2.5	2x2.5
<b>CA20</b>	25	690	8	8	5	25	3	4	7.5	3	5.5	11	2x4	2x2.5
<b>CA25</b>	32	690	12	12	6	32	4	5.5	11	4	5.5	15	2x6	2x4

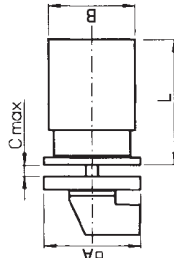
**Switch Selection – Common Rating Data and Utilization Categories**

Switch Rating or Utilization Category	Description
Rated insulation voltage, U <sub>i</sub>	Maximum value of operational voltage
Thermal current, I <sub>th</sub>	Maximum value of current that the switch can carry (not switch) when mounted in free air Max. ambient air temperature for stated value:- C switches : +55°C average over 24 hours with peaks up to 60°C KG/KH switches : +50°C average over 24 hours with peaks up to 55°C
AC-3	For the selection of switches used for starting of squirrel cage motors and switching off during running
AC-15	For selection of switches to be used for the control of an a.c. electromagnetic load, e.g. contactor coils
AC-21A	For selection of switches required for switching of resistive loads, including moderate overloads
AC-23A	For selection of switches required for switching motor loads or other highly inductive loads Normal selection criteria for emergency-off switches for motors.

# DIMENSIONS M.M.

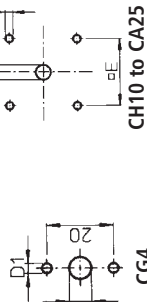
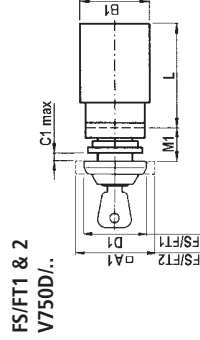
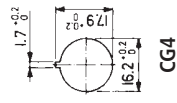
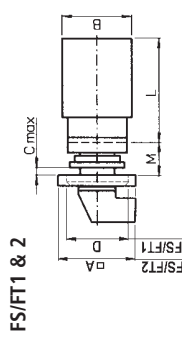
## Rotary Cam Switches

### 4 hole mounting – type E



	A	B	C	D1	D2	E
CG4	30	28	4	3.2	8-11	-
CH10	48	46	4	5	8-15	36
CA10	48	43	4	5	8-15	36
CA20	48	45	4	5	8-15	36
CA25	48	46	4	5	8-15	36

### Single hole mount - type FT/FS1 & FT/FS 2



Front

CH10 to CA25

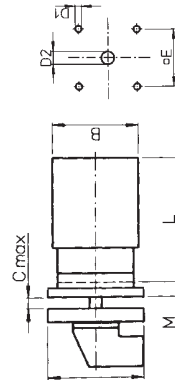
CG4

'L' Dimension	CG4		CH10		CA10		CA20		CA25			
	1	2	3	4	5	6	7	8	9	10	11	12
1	38.5	50.5	62.5	74.5	86.5	98.5	110.5	122.5	155.5	169.5	183.5	197.5
2	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
3	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
4	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
5	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
6	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
7	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
8	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
9	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
10	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
11	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-
12	57.5	71.5	85.5	99.5	113.5	127.5	141.5	155.5	169.5	183.5	197.5	-

	A	B	C	D	M
CG4	30	28	5	29.5	12.5
CH10	49	46	6	39	18.2
CA10	49	43	6	39	18.2
CA20	49	45	6	39	18.2
CA25	49	46	6	39	18.2
A1	B1	C1	D1	M1	
CG4	29.5	28	5.5	29.5	12.5
CH10	49	46	6	39	18.2
CA10	49	43	6	39	18.2
CA20	49	45	6	39	18.2
CA25	49	46	6	39	18.2

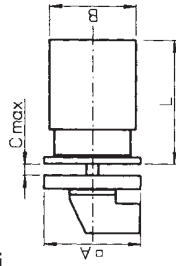
### Options

EG



	A	B	C	D1	D2	E	M
CH10	64	46	4	5	10-15	48	6.7
CA10	64	43	4	5	10-15	48	6.7
CA20	64	45	4	5	10-15	48	6.7
CA25	64	46	4	5	10-15	48	6.7

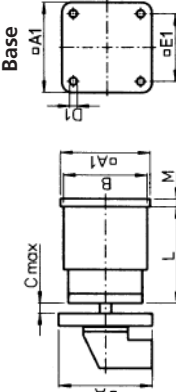
EF



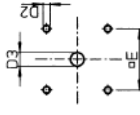
CG4

CH10 - CA25

VE



Front Mounting Holes



A

A1

B

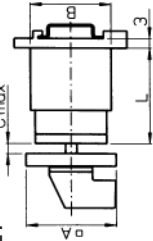
C

D1

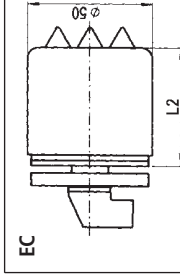
D2

CH10	48	64	46	10.5	4.1	5
CA10	48	48	43	10.5	4.1	5
CA20	48	48	45	10.5	4.1	5
CA25	48	64	46	10.5	4.1	5
D3	E	E1	F	G	M	
CH10	8-15	36	48	48	60	5.2
CA10	8-15	36	36	48	60	2.2
CA20	8-15	36	36	48	60	2.2
CA25	8-15	36	48	48	60	3.2

VE1



EC



CA10

CA10

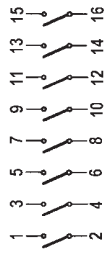
CA10

CA10

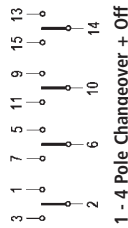
CA10	1&2 stage	3&4 stage	5&6 stage	CA10
Dim L2	53.5	67.5	81.5	

# CONNECTION DIAGRAMS

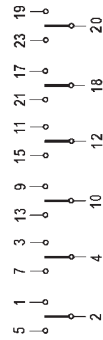
## Off / On Switches - 1 to 8 Pole



## Changeover + Off - 1 to 8 Pole



### 1 - 4 Pole Changeover + Off



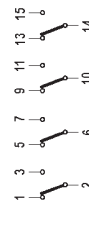
### 6 Pole Changeover + Off



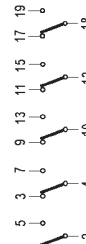
### 8 Pole Changeover + Off



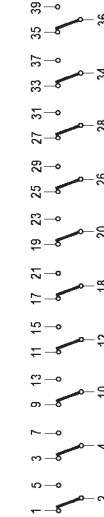
## Changeover Without Off - 1 to 10 Pole



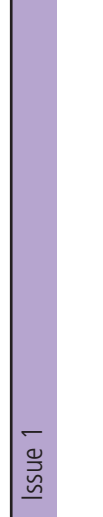
### 1 - 4 Pole Changeover



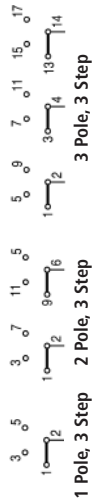
### 5 Pole Changeover



### 6, 8 and 10 Pole Changeover



## 3 Step Without Off - 1 to 6 Pole



### 1 Pole, 3 Step

### 2 Pole, 3 Step

### 3 Pole, 3 Step

### 4 & 5 Pole, 3 Step

### 6 Pole, 3 Step

### 1 - 4 Pole Changeover + Off

### 6 Pole Changeover + Off

### 8 Pole Changeover + Off

### 10 Pole Changeover + Off

### 12 Pole Changeover + Off

### 14 Pole Changeover + Off

### 16 Pole Changeover + Off

### 18 Pole Changeover + Off

### 20 Pole Changeover + Off

### 22 Pole Changeover + Off

### 24 Pole Changeover + Off

### 26 Pole Changeover + Off

### 28 Pole Changeover + Off

### 30 Pole Changeover + Off

### 32 Pole Changeover + Off

### 34 Pole Changeover + Off

### 36 Pole Changeover + Off

### 38 Pole Changeover + Off

### 40 Pole Changeover + Off

### 42 Pole Changeover + Off

### 44 Pole Changeover + Off

### 46 Pole Changeover + Off

### 48 Pole Changeover + Off

### 50 Pole Changeover + Off

### 52 Pole Changeover + Off

### 54 Pole Changeover + Off

### 56 Pole Changeover + Off

### 58 Pole Changeover + Off

### 60 Pole Changeover + Off

### 62 Pole Changeover + Off

### 64 Pole Changeover + Off

### 66 Pole Changeover + Off

### 68 Pole Changeover + Off

### 70 Pole Changeover + Off

### 72 Pole Changeover + Off

### 74 Pole Changeover + Off

### 76 Pole Changeover + Off

### 78 Pole Changeover + Off

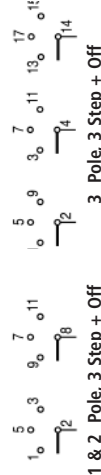
### 80 Pole Changeover + Off

## 2 Step With Off - 1 to 4 Pole



### 1 - 4 Pole, 2 Step + Off

## 3 Step With Off - 1 to 4 Pole

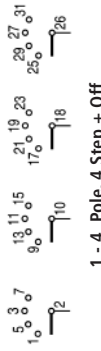


### 1 & 2 Pole, 3 Step + Off

### 3 Pole, 3 Step + Off

### 4 Pole, 3 Step + Off

## 4 Step With Off - 1 to 4 Pole



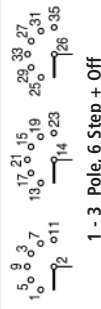
### 1 - 4 Pole, 4 Step + Off

## 5 Step With Off - 1 to 3 Pole



### 1 - 3 Pole, 5 Step + Off

## 6 Step With Off - 1 to 3 Pole



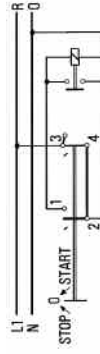
### 1 - 3 Pole, 6 Step + Off

## Double Throw, Spring Return to Centre Off - 1 to 3 Pole



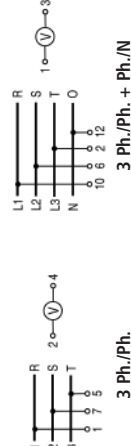
### 1 - 3 Pole, Double Throw, Spring Return

## Stop / Start, Spring Return To Centre



### 1 Pole, Stop - Start, Spring Return to Centre

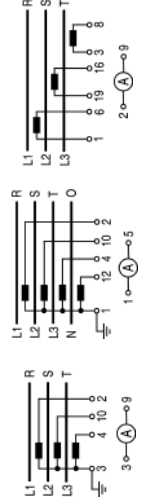
## Voltmeter Selector



### 3 Ph./Ph.

### 3 Ph./Ph. + Ph./N

## Ammeter Selector

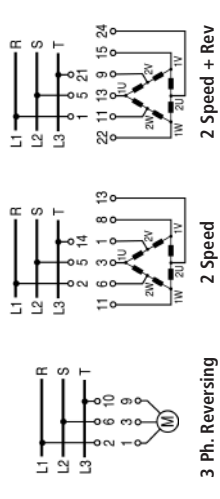


### 1 Pole, 3 CT's

### 1 Pole, 4 CT's

### 2 Pole, 3 CT's

## Motor Control



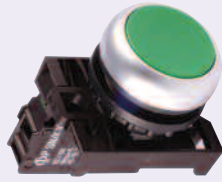
### 3 Ph. Reversing

### 2 Speed

### 2 Speed + Rev

# PUSH BUTTON, PILOT LIGHTS COMPLETE STANDARD UNITS

## Pushbuttons Flush



- IP 67 / IP 69K
- Non-illuminated
- Max. 5 additional contact blocks

Colour	Order Code
Green	P SN-WD0001
Red	P SN-WD0002

green |  $\begin{matrix} I_{13} \\ \vdots \\ I_{14} \end{matrix}$  | red  $\begin{matrix} I_{21} \\ \vdots \\ I_{22} \end{matrix}$

## Double-Pushbutton with LED element



- IP 66
- Opaque LED colour cap
- 85 V-264 V AC LED
- Max. 2 additional contact blocks



Order Code
P SN/DDL/GR/X1-X0-K11

## Pilot Lights Flush with LED element



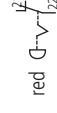
- IP 67 / IP 69K

Colour	Volts	Order Code
GREEN	12 V-30 V AC/DC	P SN-WD0003
RED	12 V-30 V AC/DC	P SN-WD0004
GREEN	85 V-264 V AC	P SN-WD0005
RED	85 V-264 V AC	P SN-WD0006

## Emergency Stop Push Buttons



- IP 67 / IP 69K - twist to reset
- IP 66 / IP 69K - pull to reset
- Fool proof acc. to ISO 13850/EN 418
- Max 3 additional contact blocks



Colour	Action	Order Code
RED	Twist To Reset	P SN-GB0002
RED	Pull To Reset	P SN/PV-K01

## Pilot Lights Flush for use with BA 9s Bulb



- IP 67 / IP 69K
- Max. 2.4W bulb (Bulb not included)
- 250 V max.

Colour	Order Code
GREEN	P SN/LC/G
RED	P SN/LC/R
YELLOW	P SN/LC/Y
BLUE	P SN/LC/B
OPAQUE	P SN/LC/W

# PUSH BUTTON OPTIONS

## Emergency Stop Plate



- IP 66
- Round, yellow
- In four languages

	Code
Ø 90 mm	P SN/XAK1
Ø 60 mm	P SN/XBK1

## Lamps - Filament





- BA 9s

Voltage	Wattage	Code
6 V	2 W	P SN/GL6
12 V	2 W	P SN/GL12
24 V	2 W	P SN/GL24
48 V	2 W	P SN/GL48
60 V	2 W	P SN/GL60
110 V-130 V	2,4 W	P SN/GL130

## Contact Blocks



- Front Mounting

	Code
N.O. 	P SN/K10
N.C. 	P SN/K01

## Protective Shroud



- IP 65
- Yellow, for emergency stop buttons
- Cannot be combined with legend plates

	Code
	P SN/XGPV

## Technical Data

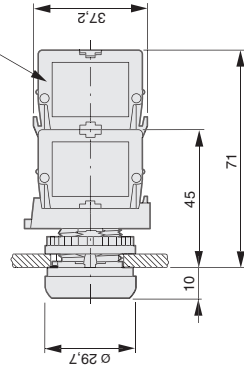
Selection data in accordance with: IEC 60947, BS EN 60947

Item	Thermal Rating	Insulation Voltage, Ui	Rated Operating Current Ie			Short Circuit Protection	Terminal Capacity								
			AC-15	DC-13			Single core.	Stranded Wire.							
Contact Blocks	6	500	115V	6	4	400V	6	3	1.7	1.2	0.8	0.3	10	0.75 - 2.5	0.5 - 2.5
LED Elements	-	500	230V	-	-	-	24V	-	-	-	-	-	-	0.75 - 2.5	0.5 - 2.5
Pilot Light - for BA9s bulbs	-	250	115V	-	-	-	42V	-	-	-	-	-	-	0.5 - 1.5	0.5 - 1.5

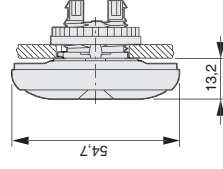
## Dimensions

### Pushbutton, Flush

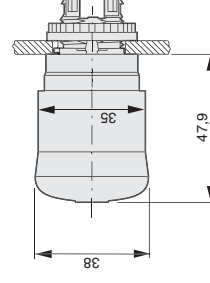
Optional contacts on 2nd level.



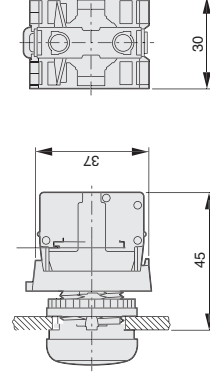
### Double Pushbutton



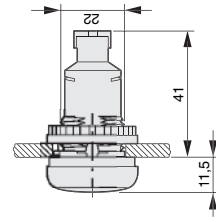
### Emergency Stop Pushbutton



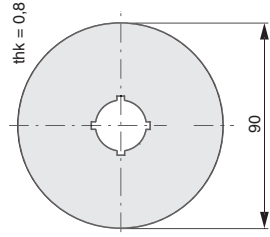
### Pilot Light, Flush, with LED



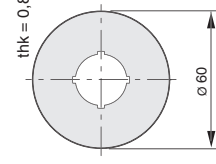
### Pilot Light, Flush, for BA9s Bulb



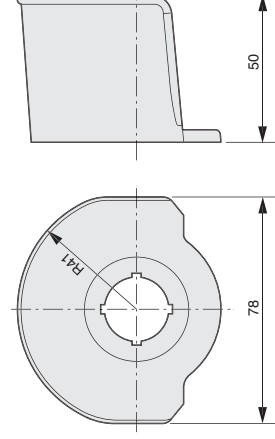
### Emergency Stop Plate P SN/XAK1



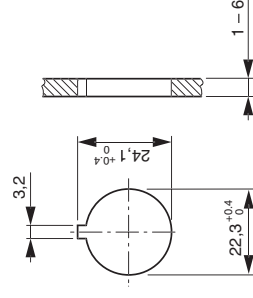
### Emergency Stop Plate P SN/XBK1



### Protective Shroud



### Mounting Hole Details



# IP RATINGS

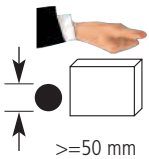
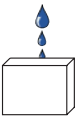
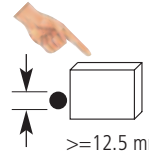
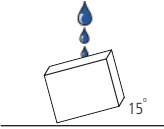
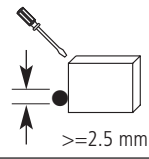
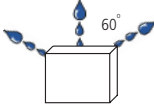
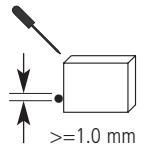
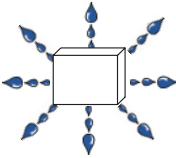
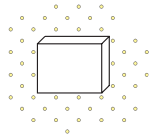
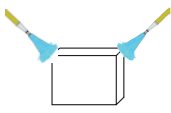
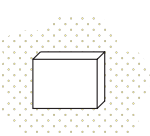
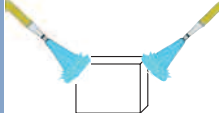
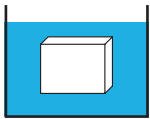
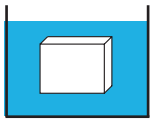
A coding system is defined by BS EN 60529 for the classification of degrees of protection provided by enclosures of electrical equipment against solid objects and water. This coding comprises the letters 'IP' followed by a two digit code as follows:-

**IP 6 5**

**Defines protection against solid objects and access to hazardous parts.**

**Defines protection against water.**

Degrees of protection indicated by a number up to and including '6' implies compliance with the requirements for all lower numbers. For a code with a second digit of 7 or 8, a second code must be stated to specify protection against water jets or spray, eg IP66/IP67.

1st Digit		Protection against solid objects and access to hazardous parts.	2nd Digit		Protection against water
0		No protection	0		No protection
1		No ingress by solid objects $\geq 50$ mm dia nor access to hazardous parts with the back of the hand	1		Vertically falling drops of water shall have no harmful effect.
2		No ingress by solid objects $\geq 12.5$ mm dia nor access to hazardous parts with a finger.	2		Vertically falling drops of water shall have no harmful effect when the enclosure is tilted at any angle up to $15^\circ$ from vertical.
3		No ingress by solid objects $\geq 2.5$ mm dia nor access to hazardous parts with a tool.	3		Water sprayed at up to $60^\circ$ from the vertical shall have no harmful effect.
4		No ingress by solid objects $\geq 1.0$ mm dia nor access to hazardous parts with a wire.	4		Water splashed from any direction shall have no harmful effect.
5		Dust protected. Ingress of dust is not completely prevented, but there should be no harmful deposits. No access to hazardous parts with a wire.	5		Jets of water projected from any direction shall have no harmful effect.
6		Dust-tight. No ingress of dust. No access to hazardous parts with a wire.	6		Strong jets of water projected from any direction shall have no harmful effect.
			7		Temporary immersion in water shall not result in ingress of harmful quantities of water.
			8		Continuous immersion in water shall not result in ingress of harmful quantities of water.

Reference should be made to BS EN 60529:1992 for full details concerning test and acceptance criteria.

