



Rotary Cam and Industrial Switches

For pricing and technical assistance,  
please contact:

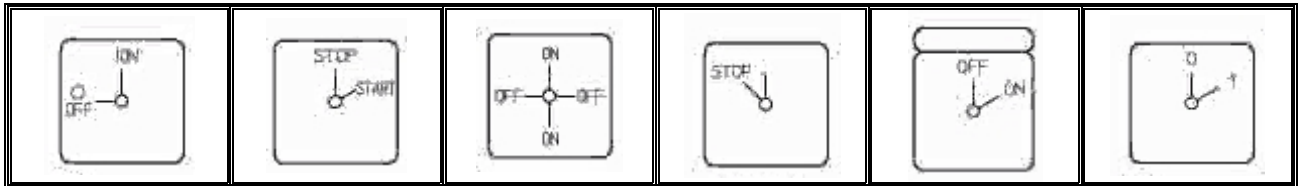


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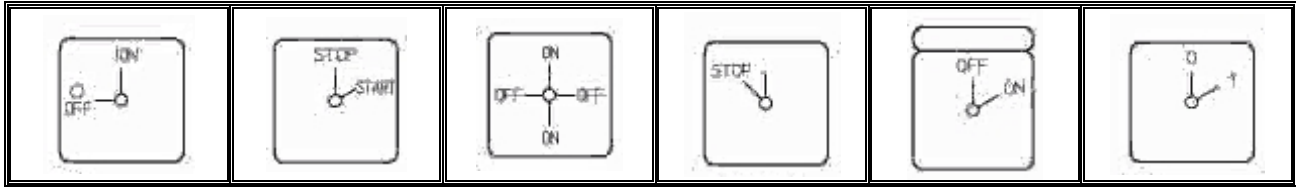
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## Switching Program Guide

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









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












## Switching Programmes

## Rotary Cam Switches





### On-Off Switches 90°

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 pole	1	1	<b>61191.</b>	
2 pole	1	2	<b>61192.</b>	
3 pole	2	3	<b>61199.</b>	
3 pole with N/PE-terminals	2	4	<b>61178.</b>	
3 pole with N-terminals	2	4	<b>61908.</b>	
4 pole	2	4	<b>61914.</b>	
4 pole, 1 pole early make	2	4	<b>61194.</b>	
4 pole, 3 pole early make	2	4	<b>61904.</b>	
5 pole, 3 pole early make	3	5	<b>61905.</b>	
6 pole	3	6	<b>61906.</b>	
6 pole, 2 auxiliary contacts	4	8	<b>61907.</b>	
8 pole	4	8	<b>61918.</b>	
<b>Complete rotation</b>				
2 pole	1	2	<b>61198.</b>	
3 pole	2	3	<b>61197.</b>	
				

### On-Off Switches 60°

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 pole	1	1	<b>61001.</b>	
2 pole	1	2	<b>61002.</b>	
3 pole	2	3	<b>61003.</b>	
4 pole	2	4	<b>61004.</b>	
5 pole	3	5	<b>61005.</b>	
6 pole	3	6	<b>61006.</b>	
7 pole	4	7	<b>61007.</b>	
8 pole	4	8	<b>61008.</b>	
9 pole	5	9	<b>61009.</b>	
10 pole	5	10	<b>61010.</b>	
11 pole	6	11	<b>61011.</b>	
12 pole	6	12	<b>61012.</b>	
				
				
				
				
				
				

### On-Off Switches with spring return

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Spring return to Off</b>				
1 pole	1	1	<b>61351.</b>	
2 pole	1	2	<b>61352.</b>	
3 pole	2	3	<b>61353.</b>	
4 pole	2	4	<b>61354.</b>	
<b>Spring return to On</b>				
1 pole	1	1	<b>61302.</b>	
				

## Switching Programmes

## Rotary Cam Switches

### Changeover Switches with centre OFF , 60°

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 pole	1	2	<b>61025.</b>	
2 pole	2	4	<b>61026.</b>	
3 pole	3	6	<b>61027.</b>	
4 pole	4	8	<b>61028.</b>	
5 pole	5	10	<b>61029.</b>	
6 pole	6	12	<b>61030.</b>	
7 pole	7	14	<b>61031.</b>	
8 pole	8	16	<b>61032.</b>	
without jumpers				
1 pole	1	2	<b>61625.</b>	
2 pole	2	4	<b>61626.</b>	
3 pole	3	6	<b>61627.</b>	

### Changeover Switches with centre OFF , 90°

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 pole	1	2	<b>61151.</b>	
2 pole	2	4	<b>61152.</b>	
3 pole	3	6	<b>61153.</b>	
4 pole	4	8	<b>61154.</b>	


### Changeover Switches with centre OFF and spring return

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Spring return to centre</b>				
1 pole	1	2	<b>61361.</b>	
2 pole	2	4	<b>61362.</b>	
3 pole	3	6	<b>61363.</b>	
without jumpers				
1 pole	1	2	<b>61761.</b>	
2 pole	2	4	<b>61762.</b>	









## Switching Programmes

## Rotary Cam Switches







### Changeover Switches with centre OFF and spring return

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Spring return from left to centre</b>				
1 pole	1	2	<b>61364.</b>	
2 pole	2	4	<b>61365.</b>	
3 pole	3	6	<b>61369.</b>	
				<b>61...-</b>

### Changeover Switches without OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 pole	1	2	<b>61037.</b>	
2 pole	2	4	<b>61038.</b>	
3 pole	3	6	<b>61039.</b>	
4 pole	4	8	<b>61040.</b>	
5 pole	5	10	<b>61041.</b>	
6 pole	6	12	<b>61042.</b>	
7 pole	7	14	<b>61043.</b>	
8 pole	8	16	<b>61044.</b>	
9 pole	9	18	<b>61045.</b>	
10 pole	10	20	<b>61046.</b>	
11 pole	11	22	<b>61047.</b>	
12 pole	12	24	<b>61048.</b>	
<b>without jumpers</b>				
1 pole	1	2	<b>61637.</b>	
2 pole	2	4	<b>61638.</b>	
3 pole	3	6	<b>61639.</b>	
4 pole	4	8	<b>61640.</b>	
				
				
				<b>61...F   61...H   61...I</b>

### Changeover Switches without OFF with spring return

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Spring return to „1“</b>				
1 pole	1	2	<b>61371.</b>	
2 pole	2	4	<b>61372.</b>	
3 pole	3	6	<b>61373.</b>	
<b>without jumpers</b>				
1 pole	1	2	<b>61771.</b>	
				
				
				
				<b>61...-   61...A   61...B   61...C   61...D   61...E</b>

## Switching Programmes

## Rotary Cam Switches














### Multi-step Switches with OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>2 steps</b>				
1 pole	1	2	<b>61059.</b>	
2 pole	2	4	<b>61079.</b>	
3 pole	3	6	<b>61099.</b>	
4 pole	4	8	<b>61130.</b>	<b>61...-</b>
5 pole	5	10	<b>61134.</b>	<b>61...A</b>
6 pole	6	12	<b>61137.</b>	<b>61...B</b>
<b>3 steps</b>				
1 pole	2	3	<b>61060.</b>	
2 pole	3	6	<b>61080.</b>	
3 pole	5	9	<b>61100.</b>	
4 pole	6	12	<b>61131.</b>	
5 pole	8	15	<b>61135.</b>	
<b>4 steps</b>				
1 pole	2	4	<b>61061.</b>	
2 pole	4	8	<b>61081.</b>	
3 pole	6	12	<b>61101.</b>	
4 pole	8	16	<b>61132.</b>	<b>61...-</b>
<b>5 steps</b>				
1 pole	3	5	<b>61062.</b>	
2 pole	5	10	<b>61082.</b>	
3 pole	8	15	<b>61102.</b>	
<b>6 steps</b>				
1 pole	3	6	<b>61063.</b>	
2 pole	6	12	<b>61083.</b>	
3 pole	9	18	<b>61103.</b>	
<b>7 steps</b>				
1 pole	4	7	<b>61064.</b>	
2 pole	7	14	<b>61084.</b>	
<b>8 steps</b>				
1 pole	4	8	<b>61065.</b>	
<b>9 steps</b>				
1 pole	5	9	<b>61066.</b>	
<b>10 steps</b>				
1 pole	5	10	<b>61067.</b>	
<b>11 steps</b>				
1 pole	6	11	<b>61068.</b>	

## Switching Programmes

## Rotary Cam Switches

### Multi-step Switches without OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription	
<b>3 steps</b>					
1 pole	2	3	<b>61049.</b>	 	
2 pole	3	6	<b>61069.</b>		
3 pole	5	9	<b>61089.</b>		
4 pole	6	12	<b>61120.</b>	<b>61...-</b>	
5 pole	8	15	<b>61124.</b>		
6 pole	9	18	<b>61126.</b>		
without jumpers				<b>61...A</b>	
1 pole	2	3	<b>61649.</b>		
2 pole	3	6	<b>61669.</b>		
<b>4 steps</b>					
1 pole	2	4	<b>61050.</b>	 	
2 pole	4	8	<b>61070.</b>		
3 pole	6	12	<b>61090.</b>		
4 pole	8	16	<b>61121.</b>	<b>61...-</b>	
5 pole	10	20	<b>61125.</b>		
6 pole	12	24	<b>61127.</b>		
without jumpers				<b>61...A</b>	
1 pole	2	4	<b>61650.</b>		
2 pole	4	8	<b>61670.</b>		
<b>5 steps</b>					
1 pole	3	5	<b>61051.</b>	 	
2 pole	5	10	<b>61071.</b>		
3 pole	8	15	<b>61091.</b>		
4 pole	10	20	<b>61122.</b>	<b>61...-</b>	
1 pole	3	6	<b>61052.</b>		
2 pole	6	12	<b>61072.</b>		
3 pole	9	18	<b>61092.</b>		
without jumpers				<b>61...A</b>	
1 pole	3	6	<b>61052.</b>		
2 pole	6	12	<b>61072.</b>		
3 pole	9	18	<b>61092.</b>		
<b>7 steps</b>					
1 pole	4	7	<b>61053.</b>		
2 pole	7	14	<b>61073.</b>		
3 pole	11	21	<b>61093.</b>		
without jumpers				<b>61...-</b>	
<b>8 steps</b>					
1 pole	4	8	<b>61054.</b>		
2 pole	8	16	<b>61074.</b>		
3 pole	12	24	<b>61094.</b>		
without jumpers				<b>61...-</b>	
<b>9 steps</b>					
1 pole	5	9	<b>61055.</b>		
without jumpers				<b>61055-</b>	
<b>10 steps</b>					
1 pole	5	10	<b>61056.</b>		
without jumpers				<b>61056-</b>	
<b>11 steps</b>					
1 pole	6	11	<b>61057.</b>		
without jumpers				<b>61057-</b>	
<b>12 steps</b>					
1 pole	6	12	<b>61058.</b>		
without jumpers				<b>61058-</b>	

## Switching Programmes

## Rotary Cam Switches

### Code Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Binary Code</b>				
0 - 7	2	3	<b>61920.</b>	 61...-
0 - 7 complement	2	3	<b>61921.</b>	
0 - 7 + complement	3	6	<b>61922.</b>	
0 - 11	2	4	<b>61923.</b>	 61...-
0 - 11 + complement	4	8	<b>61924.</b>	
<b>BCD Code</b>				
0 - 9	2	4	<b>61930.</b>	 61...-
0 - 9 complement	2	4	<b>61931.</b>	
0 - 9 + complement	4	8	<b>61932.</b>	

### Gang Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>2 gangs</b>				
1 pole	1	2	<b>61109.</b>	 61...-
2 pole	2	4	<b>61117.</b>	
3 pole	3	6	<b>61111.</b>	
<b>3 gangs</b>				
1 pole	2	3	<b>61110.</b>	 61...-
2 pole	3	6	<b>61118.</b>	
3 pole	5	9	<b>61112.</b>	
<b>Series-gang Switches</b>				
<b>2 gangs</b>				
1 pole	1	2	<b>61113.</b>	 61...A
2 pole	2	4	<b>61115.</b>	
3 pole	3	6	<b>61114.</b>	
<b>Series-parallel Switches</b>				
<b>2 gangs</b>				
2 pole	2	4	<b>61116.</b>	

### Voltmeter Selector Switches with OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 phase line to line, 30°	2	4	<b>61312.</b>	 61312-
				 61312A
				 61312B
				 61312C
				 61312D
				 61312E
				 61312F
3 phase line to line, 60°	2	4	<b>61485.</b>	 61485-
				 61485A
				 6485B



## Switching Programmes

## Rotary Cam Switches

### Voltmeter Selector Switches with OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 phase line to neutral	2	4	61311.	 <b>61311-</b> <b>61311A</b> <b>61311B</b> <b>61311C</b> <b>61311D</b> <b>61311E</b>
3 phase line to line + 3 phase line to neutral	3	6	61313.	 <b>61313-</b> <b>61313A</b> <b>61313B</b> <b>61313C</b> <b>61313D</b> <b>61313E</b>   <b>61313F</b> <b>61313G</b>
3 phase line to line + 1 phase line to N	3	5	61317.	 <b>61317-</b> <b>61317A</b> <b>61317B</b> <b>61317C</b> <b>61317D</b> <b>61317E</b>
3 phase line to line for 2 sources	4	8	61318.	 <b>61318-</b> <b>61318A</b> <b>61318B</b> <b>61318C</b> <b>61318D</b> <b>61318E</b>   <b>61318F</b> <b>61318G</b>
2 pole, 1 phase	1	2	61198.	 <b>61198-</b> <b>61198A</b> <b>61198B</b> <b>61198C</b>

### Voltmeter Selector Switches without OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 phase line to line	2	4	61319.	 <b>61319-</b> <b>61319A</b> <b>61319B</b>
3 phase line to line + 3 line to neutral	3	6	61314.	 <b>61314-</b> <b>61314A</b> <b>61314B</b>

## Switching Programmes

## Rotary Cam Switches

### Ammeter Selector Switches with OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
1 transformer, 1 pole	1	2	<b>61321.</b>	 <b>61321- 61321A 61321B 61321C 61321G</b>
2 transformers, 1 pole (3 phase)	2	4	<b>61331.</b>	 <b>61...- 61...A 61...B 61...C 61...D 61...E</b>
3 transformers, 1 pole	3	6	<b>61325.</b>	
3 transformers, 2 pole	5	9	<b>61328.</b>	
				 <b>61...F</b>
2 transformers, 2 pole	3	6	<b>61327.</b>	 <b>61327- 61327A 61327E</b>

### Ammeter Selector Switches without OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 transformers, 1 pole	3	6	<b>61384.</b>	 <b>61...- 61...A</b>
3 transformers, 2 pole	5	9	<b>61329.</b>	
4 transformers, 1 pole	4	8	<b>61326.</b>	 <b>61...- 61...A</b>
4 transformers, 2 pole	6	12	<b>61330.</b>	

### Voltmeter-Ammeter Selector Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 voltages L-L, 3 currents	5	10	<b>61336.</b>	 <b>61...- 61...A 61...B 61...C</b>
3 phase voltages L-N, 3 currents	5	9	<b>61338.</b>	
4 voltages, 3 currents	6	11	<b>61337.</b>	 <b>61337- 61337A</b>

## Switching Programmes

## Rotary Cam Switches

### Control Switches with spring return

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>Control switches</b>				
1 pole	1	2	<b>61300.</b>	
2 pole	2	4	<b>61388.</b>	
without jumpers				
1 pole	1	2	<b>61700.</b>	
				<b>61...- 61...A 61...B 61...C</b>
<b>Control switches with position indication</b>				
1 pole	1	2	<b>61301.</b>	
without jumpers				
1 pole	1	2	<b>61701.</b>	
				<b>61...- 61...A 61...B 61...C</b>
<b>Controlling two contactors</b>				
Standard	2	3	<b>61307.</b>	
without jumpers	2	3	<b>61707.</b>	
				<b>61...- 61...A 61...B</b>
<b>With spring return</b>				
4 auxiliary contacts	2	4	<b>61366.</b>	
motor voltage control switch	2	3	<b>61271.</b>	
single winding contactor	4	8	<b>61272.</b>	
				<b>61...- 61...T</b>

### Motor Reversing Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
2 pole	2	4	<b>61210.</b>	
3 pole	3	5	<b>61211.</b>	
				<b>61...- 61...A 61...B</b>
3 pole with spring return	3	5	<b>61253.</b>	
				<b>61253- 61253T</b>
3 pole, complete rotation	3	5	<b>61214.</b>	
				<b>61214- 61214A</b>






### Star-delta Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
Standard	4	8	<b>61200.</b>	
Contact closed in „OFF“	5	9	<b>61239.</b>	
				<b>61...- 61...A 61...B 61...C</b>
Spring return from START to „OFF“	4	8	<b>61201.</b>	
				<b>61201- 61201A</b>










## Switching Programmes

## Rotary Cam Switches










### Star-delta Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
for use with contactor	4	7	<b>61240.</b>	   <b>61240- 61240A 61240B</b>
<b>Reversing Star-delta switches</b> Standard	5	10	<b>61203.</b>	  <b>61203- 61203A</b>

### Multi-speed Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
<b>2 speeds</b> single winding	4	8	<b>61212.</b>	 
single winding - contactor control	5	10	<b>61215.</b>	<b>61...- 61...A</b>
2 separate windings	3	6	<b>61219.</b>	
<b>2 speeds</b> single winding	4	8	<b>61213.</b>	  <b>61213- 61213A</b>
<b>3 speeds, 2 windings</b> speed 1+3 Dahlander	6	11	<b>61226.</b>	  <b>61...- 61...A</b>
speed 2+3 Dahlander	6	11	<b>61243.</b>	
<b>Reversing Multi-speed switches</b> 2 speeds, single winding	6	12	<b>61217.</b>	   <b>61217- 61217A 61217B</b>

### Auxiliary Phase Switches

Description	Stages	Contacts	Ident No.	Ident No. with inscription
Standard	2	3	<b>61208.</b>	    <b>61208- 61208A 61208B 61208C</b>
2 directions	3	6	<b>61209.</b>	   <b>61209- 61209A 61209B</b>
2 directions phase continuously under load	3	6	<b>61270.</b>	  <b>61270- 61270A</b>