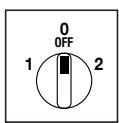
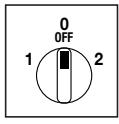
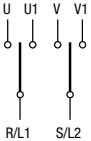
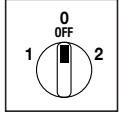
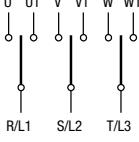
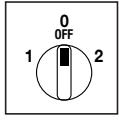
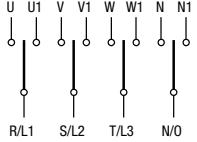


Circuit diagrams

Switches																																									
plate	diagram	function	circuit diagram	contact/element description	element no.																																				
	0001	ON-OFF switch 1 pole		<table border="1"><tr><td></td><td>0</td><td></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td>1</td><td>X</td><td></td><td></td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td>1</td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>		0				CR	60°		1	X			CA		Contact	1	2	3	4	CQ	90°	Element	1				Angle		1								
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	0004	ON-OFF switch 4 pole		<table border="1"><tr><td></td><td>0</td><td></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td>1</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td>1</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>		0				CR	60°		1	X	X	X	X		Contact	1	2	3	4	5	6	7	8	CQ	90°	Element	1				2				Angle		2
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	00G3	ON-OFF switch 3 pole with padlockable handle		<table border="1"><tr><td></td><td>0</td><td></td><td></td><td></td><td>CR</td><td>90°</td></tr><tr><td></td><td>1</td><td>X</td><td>X</td><td>X</td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td></td></tr><tr><td>Element</td><td>1</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>		0				CR	90°		1	X	X	X	CA		Contact	1	2	3	4	5	6	7	8	CQ		Element	1				2				Angle		2
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Circuit diagrams

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Motor control switches 3 phase

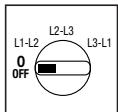
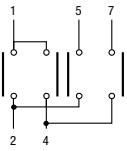
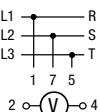
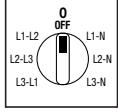
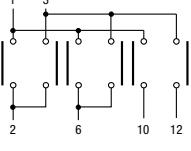
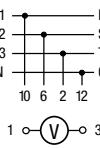
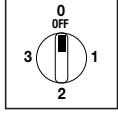
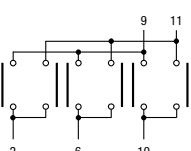
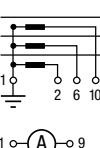
plate	diagram	function	circuit diagram	contact/element description	element no.																																			
	0008	Reversing switch 3 pole		<table border="1"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CR CA 60°</td></tr> <tr><td>0</td><td>X</td><td></td><td>X</td><td>CQ 45°</td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3</td><td></td><td></td><td>Angle</td></tr> </table>	2	X	X	X	CR CA 60°	0	X		X	CQ 45°	1	X	X	X		Contact	1 2 3 4 5 6 7 8 9 10 11 12				Element	1 2 3			Angle											
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	0036	Reversing switch 3 pole with spring return to "off"		<table border="1"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CR CA 45°</td></tr> <tr><td>0</td><td></td><td></td><td>X</td><td>CQ 45°</td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3</td><td></td><td></td><td>Angle</td></tr> </table>	2	X	X	X	CR CA 45°	0			X	CQ 45°	1	X	X	X		Contact	1 2 3 4 5 6 7 8 9 10 11 12				Element	1 2 3			Angle											
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	0009	Changing switch Dahlander pole		<table border="1"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CR CA 60°</td></tr> <tr><td>0</td><td></td><td></td><td>X</td><td>CQ 45°</td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3 4</td><td></td><td></td><td>Angle</td></tr> </table>	2	X	X	X	CR CA 60°	0			X	CQ 45°	1	X		X		Contact	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16				Element	1 2 3 4			Angle											
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	0011	Reversing switch Pole changing		<table border="1"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CR</td></tr> <tr><td>0</td><td></td><td></td><td>X</td><td>CA 45°</td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td><td>CQ</td></tr> <tr><td>0</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3 4 5 6</td><td></td><td></td><td>Angle</td></tr> </table>	2	X	X	X	CR	0			X	CA 45°	1	X	X	X	CQ	0			X		2	X	X	X		Contact	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				Element	1 2 3 4 5 6			Angle	
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Motor control switches single phase

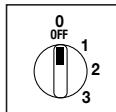
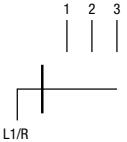
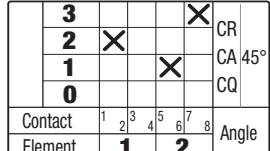
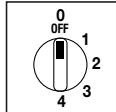
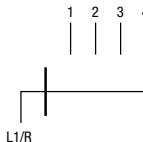
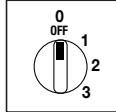
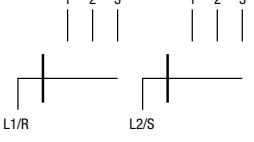
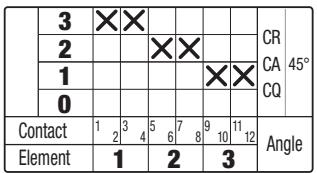
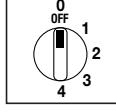
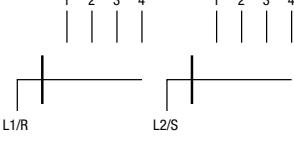
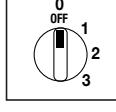
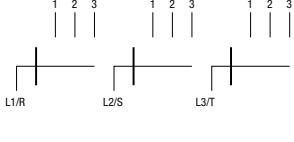
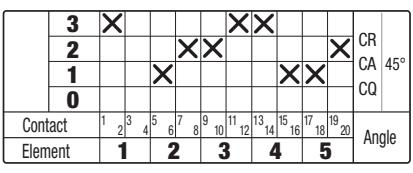
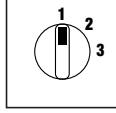
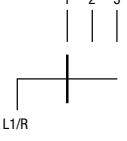
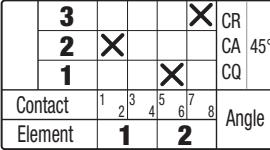
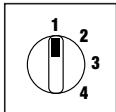
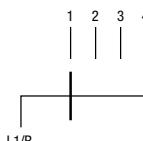
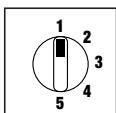
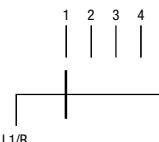
plate	diagram	function	circuit diagram	contact/element description	element no.																									
	0031	Switch single-phase motor + aux phase		<table border="1"> <tr><td>Avv</td><td>X</td><td>X</td><td>X</td><td>CR CA 45°</td></tr> <tr><td>1</td><td></td><td></td><td>X</td><td>CQ</td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2</td><td></td><td></td><td>Angle</td></tr> </table>	Avv	X	X	X	CR CA 45°	1			X	CQ	0					Contact	1 2 3 4 5 6 7 8				Element	1 2			Angle	
Avv	X	X	X	CR CA 45°																										
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	0032	Reversing Switch single-phase motor + aux phase		<table border="1"> <tr><td>Avv</td><td>X</td><td>X</td><td>X</td><td>CR CA 45°</td></tr> <tr><td>1</td><td></td><td></td><td>X</td><td>CQ</td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3</td><td></td><td></td><td>Angle</td></tr> </table>	Avv	X	X	X	CR CA 45°	1			X	CQ	0					Contact	1 2 3 4 5 6 7 8 9 10 11 12				Element	1 2 3			Angle	
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1			X	CQ																										
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Contact	1 2 3 4 5 6 7 8 9 10 11 12																													
Element	1 2 3			Angle																										
	0034	Reversing Switch single-phase motor + centrif.		<table border="1"> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CR CA 45°</td></tr> <tr><td>0</td><td></td><td></td><td>X</td><td>CQ</td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1 2 3 4 5 6 7 8 9 10 11 12</td><td></td><td></td><td></td></tr> <tr><td>Element</td><td>1 2 3</td><td></td><td></td><td>Angle</td></tr> </table>	2	X	X	X	CR CA 45°	0			X	CQ	1	X	X	X		Contact	1 2 3 4 5 6 7 8 9 10 11 12				Element	1 2 3			Angle	
2	X	X	X	CR CA 45°																										
0			X	CQ																										
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Contact	1 2 3 4 5 6 7 8 9 10 11 12																													
Element	1 2 3			Angle																										

Electrical diagrams

Voltmeter & Ammeter switches

plate	diagram	function	circuit diagram	contact/element description	element no.																																																						
	0016	Voltmeter switch 3 concatenated voltages		<table border="1"> <tr><td>L3-L1</td><td>X</td><td>X</td><td></td><td>CR</td><td></td></tr> <tr><td>L2-L3</td><td>X</td><td>X</td><td>X</td><td>CA</td><td>45°</td></tr> <tr><td>L1-L2</td><td>X</td><td></td><td>X</td><td>CQ</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td></td><td></td><td></td></tr> </table>	L3-L1	X	X		CR		L2-L3	X	X	X	CA	45°	L1-L2	X		X	CQ		0						Contact	1	2	3	4	5	Element	1	2																						
L3-L1	X	X		CR																																																							
L2-L3	X	X	X	CA	45°																																																						
L1-L2	X		X	CQ																																																							
0																																																											
Contact	1	2	3	4	5																																																						
Element	1	2																																																									
	0018	Voltmeter switch 3 concatenated voltages and 3 phase voltages		<table border="1"> <tr><td>L3-N</td><td>X</td><td></td><td></td><td>CR</td><td></td></tr> <tr><td>L2-N</td><td>X</td><td></td><td></td><td>CA</td><td>45°</td></tr> <tr><td>L1-N</td><td></td><td>X</td><td>X</td><td>CQ</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-L2</td><td>X</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>L2-L3</td><td>X</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>L3-L1</td><td>X</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td></tr> </table>	L3-N	X			CR		L2-N	X			CA	45°	L1-N		X	X	CQ		0						L1-L2	X	X				L2-L3	X	X				L3-L1	X		X			Contact	1	2	3	4	5	Element	1	2	3			
L3-N	X			CR																																																							
L2-N	X			CA	45°																																																						
L1-N		X	X	CQ																																																							
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L3-L1	X		X																																																								
Contact	1	2	3	4	5																																																						
Element	1	2	3																																																								
	0022	Ammeter switch 1 pole 3 current transformers		<table border="1"> <tr><td>3</td><td>X</td><td>X</td><td></td><td>CR</td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td>CA</td><td>90°</td></tr> <tr><td>1</td><td></td><td>X</td><td>X</td><td>CQ</td><td></td></tr> <tr><td>0</td><td></td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td></tr> </table>	3	X	X		CR		2	X	X	X	CA	90°	1		X	X	CQ		0		X	X			Contact	1	2	3	4	5	Element	1	2	3																					
3	X	X		CR																																																							
2	X	X	X	CA	90°																																																						
1		X	X	CQ																																																							
0		X	X																																																								
Contact	1	2	3	4	5																																																						
Element	1	2	3																																																								

Multi-step change-over switches

plate	diagram	function	circuit diagram	contact/element description	element no.
	MZ13	Multi step switch with OFF 1 pole 3 steps			2
	MZ14	Multi step switch with OFF 1 pole 4 steps			2
	MZ23	Multi step switch with OFF 2 pole 3 steps			3
	MZ24	Multi step switch with OFF 2 pole 4 steps			4
	MZ33	Multi step switch with OFF 3 pole 3 steps			5
	M013	Multi step switch without OFF 1 pole 3 steps			2
	M014	Multi step switch without OFF 1 pole 4 steps			2
	M015	Multi step switch without OFF 1 pole 5 steps			3

Cam switches

■ International standards and approvals

Country	USA / Canada	Canada	Germany	Switzerland	Denmark	Norway	Sweden	Finland	Austria	Great Britain	IEC
Authority	UL investigated according to CSA	CSA International	Verband Deutscher Elektrotechiker	Schweizerischer Elektrotechnischer Verein	Danmarks Elektriske Materielkotroll	Norges Elektriske Materielkotroll	Svenska Elektriske Materielkotroll-anstalten	Sähötar-kastuskeskus	Österreichischer Verband für Elektrotechnik	British Standards Institution	International electrical Commission
Mark of standard	c (1) us (1)	(2)	VDE 0660 (3)							BS EN 60947 (3)	IEC 60947 (4)
CA012	•		+	+	+	+	+	+	+	+	+
CA016	•		+	+	+	+	+	+	+	+	+
CA020	•	•	+	+	+	+	+	+	+	+	+
CA025	•	•	+	+	+	+	+	+	+	+	+
CA032	•	•	+	+	+	+	+	+	+	+	+
CA040	•	•	+	+	+	+	+	+	+	+	+
CA050	•		+	+	+	+	+	+	+	+	+
CA063	•	•	+	+	+	+	+	+	+	+	+
CA100	•	•	+	+	+	+	+	+	+	+	+
CA200		•	+	+	+	+	+	+	+	+	+
CA400		•	+	+	+	+	+	+	+	+	+
CA630		•	+	+	+	+	+	+	+	+	+
CQ012	•	•	+	+	+	+	+	+	+	+	+
CQ016	•	•	+	+	+	+	+	+	+	+	+
CQ025			+	+	+	+	+	+	+	+	+
CQ032			+	+	+	+	+	+	+	+	+
CR012	•		+	+	+	+	+	+	+	+	+
CR016	•		+	+	+	+	+	+	+	+	+
CR020	•		+	+	+	+	+	+	+	+	+
CR025	•		+	+	+	+	+	+	+	+	+
CR032	•		+	+	+	+	+	+	+	+	+
CR040	•			+	+	+	+	+	+	+	+

• Approved

+ conforms to requirements

Note:

- 1) UL Approval File E101686
- 2) CSA Approval File 039540-0-000
- 3) It is not required to bear a symbol but switches must conform to requirements.
- 4) IEC does not operate an approval diagram