

10920E00

Load and Motor Switches Series 8543

- Explosion protection to
 - CENELEC
 - IEC
- For use in Zone 1 and Zone 2
- Isolator
- Motor switching capacity
- Rated working voltage up to 690 V
- Rated working current 40 A, 63 A / 80 A
- Different switching sequences available


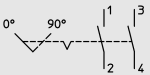
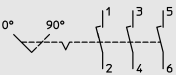
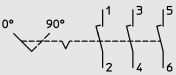
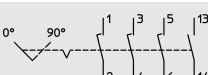
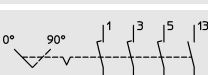

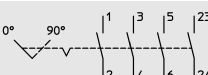
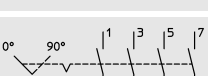
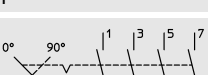
STAHL

Load and motor switches Series 8543 meets all requirements for use as motor switches or primary switches.

Since these switches are not complete electrical units, they must be fitted into enclosures protected to the Ex e "increased safety" standard.


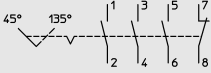
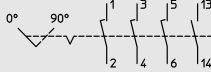
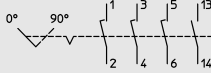
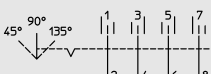
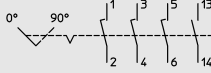

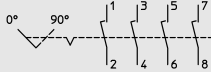
Zones 1 & 2

Selection Table


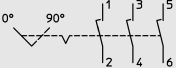
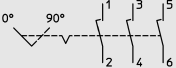
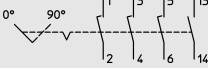
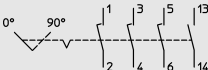

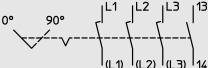
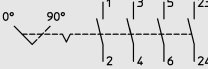
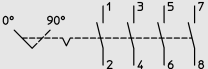
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	1	3															
	0°	X															
	90°	X															
	2	4															
	<p>3 pole</p> <table border="1" data-bbox="512 562 603 622"> <tr><td>1</td><td>3</td><td>5</td></tr> <tr><td>0°</td><td>X</td><td>X</td></tr> <tr><td>90°</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>4</td><td>6</td></tr> </table>  <p>08899E00</p> <p>Switching arrangement no. 006 Contact material: silver-cadmium</p>	1	3	5	0°	X	X	90°	X	X	2	4	6	8543 / 1-006-000			
	1	3	5														
	0°	X	X														
	90°	X	X														
	2	4	6														
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1	3	5															
0°	X	X															
90°	X	X															
2	4	6															
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1	3	5	13														
0°	X	X	X														
90°	X	X	X														
2	4	6	14														
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1	3	5	13														
0°	X	X	X														
90°	X	X	X														
2	4	6	14														
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L1	L2	L3	13														
0°	X	X	X														
90°	X	X	X														
(L1)	(L2)	(L3)	14														
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1	3	5	23														
0°	X	X	X														
90°	X	X	X														
2	4	6	24														
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1	3	5	7														
0°	X	X	X														
90°	X	X	X														
2	4	6	8														
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1	3	5	7														
0°	X	X	X														
90°	X	X	X														
2	4	6	8														



Selection Table


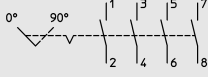
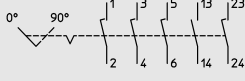
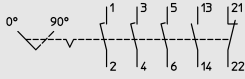

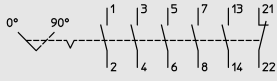
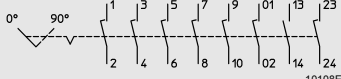
Version	Description	Ordering Code																																			
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		1	3	5	7																																
	45°				X																																
	135°	X	X	X	X																																
		2	4	6	8																																
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		1	3	5	13	23																															
	0°																																				
90°	X	X	X	X	X																																
	2	4	6	14	24																																
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	1	3	5	13	21																																
0°																																					
90°	X	X	X	X	X																																
	2	4	6	14	22																																
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	1	3	5	7	9	01																															
45°	X				X	X																															
90°																																					
135°	X	X	X	X	X	X																															
	2	4	6	8	10	02																															
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	1	3	5	13	23	31																															
0°																																					
90°	X	X	X	X	X	X																															
	2	4	6	14	24	32																															
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	1	3	5	7	9	01	13	23																													
0°																																					
90°	X	X	X	X	X	X	X	X																													
	2	4	6	8	10	02	14	24																													
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	1	3	5	7	9	01	13	23																													
0°																																					
90°	X	X	X	X	X	X	X	X																													
	2	4	6	8	10	02	14	24																													

Selection Table

Version	Description	Ordering Code														
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	0°	1	3	5												
	90°	X	X	X												
		2	4	6												
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	0°	1	3	5												
	90°	X	X	X												
		2	4	6												
	<p>4 pole</p> <table border="1" data-bbox="512 752 635 819"> <tr><td>0°</td><td>1</td><td>3</td><td>5</td><td>13</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>14</td></tr> </table>  <p>04665E00</p> <p>Switching arrangement no. 001 Contact material: silver-cadmium 1 auxiliary contact 8543</p>	0°	1	3	5	13	90°	X	X	X	X		2	4	6	14
0°	1	3	5	13												
90°	X	X	X	X												
	2	4	6	14												
<table border="1" data-bbox="512 931 635 999"> <tr><td>0°</td><td>1</td><td>3</td><td>5</td><td>13</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>14</td></tr> </table>  <p>04665E00</p> <p>Switching arrangement no. 001 Contact material: silver-cadmium; auxiliary contacts gold-plated 1 auxiliary contact 8006</p>	0°	1	3	5	13	90°	X	X	X	X		2	4	6	14	8543/2-001-081
0°	1	3	5	13												
90°	X	X	X	X												
	2	4	6	14												
<table border="1" data-bbox="512 1122 635 1189"> <tr><td>0°</td><td>1</td><td>3</td><td>5</td><td>13</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>14</td></tr> </table>  <p>04665E00</p> <p>Switching arrangement no. 001 With PE-rail at the base Contact material: silver-cadmium 1 auxiliary contact 8543</p>	0°	1	3	5	13	90°	X	X	X	X		2	4	6	14	8543/2-001-405
0°	1	3	5	13												
90°	X	X	X	X												
	2	4	6	14												
<table border="1" data-bbox="512 1335 635 1402"> <tr><td>0°</td><td>L1</td><td>L2</td><td>L3</td><td>13</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>(L1)</td><td>(L2)</td><td>(L3)</td><td>14</td></tr> </table>  <p>05953E00</p> <p>Switching arrangement no. 003 For plugs and sockets With N-terminal at the base Contact material: silver-cadmium 1 auxiliary contact 8543 big and small terminals</p>	0°	L1	L2	L3	13	90°	X	X	X	X		(L1)	(L2)	(L3)	14	8543/2-003-205-2
0°	L1	L2	L3	13												
90°	X	X	X	X												
	(L1)	(L2)	(L3)	14												
<table border="1" data-bbox="512 1615 635 1682"> <tr><td>0°</td><td>1</td><td>3</td><td>5</td><td>23</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>24</td></tr> </table>  <p>10112E00</p> <p>Switching arrangement no. 017 With PE-rail and N-terminals Contact material: silver-cadmium 1 auxiliary contact 8543</p>	0°	1	3	5	23	90°	X	X	X	X		2	4	6	24	8543/2-017-505
0°	1	3	5	23												
90°	X	X	X	X												
	2	4	6	24												
<table border="1" data-bbox="512 1827 635 1895"> <tr><td>0°</td><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>  <p>08900E00</p> <p>Switching arrangement no. 021 Contact material: silver-cadmium</p>	0°	1	3	5	7	90°	X	X	X	X		2	4	6	8	8543/2-021-000
0°	1	3	5	7												
90°	X	X	X	X												
	2	4	6	8												



Selection Table


Version	Description	Ordering Code																																			
 <p>01768E00</p> <p>Load and motor switch 63 A / 80 A Series 8543/2</p>	<p>4 pole</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>  <p style="text-align: right;">08900E00</p> <p>Switching arrangement no. 021 With PE-rail at the base Contact material: silver-cadmium</p>		1	3	5	7	0°					90°	X	X	X	X		2	4	6	8	8543/2-021-400															
		1	3	5	7																																
	0°																																				
	90°	X	X	X	X																																
		2	4	6	8																																
	<p>5 pole</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>13</td><td>23</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>14</td><td>24</td></tr> </table>  <p style="text-align: right;">05952E00</p> <p>Switching arrangement no. 002 With PE-rail at the base Contact material: silver-cadmium 2 auxiliary contacts 8006</p>		1	3	5	13	23	0°						90°	X	X	X	X	X		2	4	6	14	24	8543/2-002-402											
	1	3	5	13	23																																
0°																																					
90°	X	X	X	X	X																																
	2	4	6	14	24																																
<table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>13</td><td>21</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>14</td><td>22</td></tr> </table>  <p style="text-align: right;">10109E00</p> <p>Switching arrangement no. 013 With PE-rail at the base Contact material: silver-cadmium 2 auxiliary contacts 8006</p>		1	3	5	13	21	0°					X	90°	X	X	X	X	X		2	4	6	14	22	8543/2-013-402												
	1	3	5	13	21																																
0°					X																																
90°	X	X	X	X	X																																
	2	4	6	14	22																																
<table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>13</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>14</td></tr> </table>  <p style="text-align: right;">10110E00</p> <p>Switching arrangement no. 014 Contact material: silver-cadmium 1 auxiliary contact 8006</p>		1	3	5	7	13	0°						90°	X	X	X	X	X		2	4	6	8	14	8543/2-014-001												
	1	3	5	7	13																																
0°																																					
90°	X	X	X	X	X																																
	2	4	6	8	14																																
<p>6 pole</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>13</td><td>21</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>14</td><td>22</td></tr> </table>  <p style="text-align: right;">10145E00</p> <p>Switching arrangement no. 026 Contact material: silver-cadmium 2 auxiliary contacts 8006</p>		1	3	5	7	13	21	0°						X	90°	X	X	X	X	X	X		2	4	6	8	14	22	8543/2-026-002								
	1	3	5	7	13	21																															
0°						X																															
90°	X	X	X	X	X	X																															
	2	4	6	8	14	22																															
<p>8 pole</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>01</td><td>13</td><td>23</td></tr> <tr><td>0°</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>02</td><td>14</td><td>24</td></tr> </table>  <p style="text-align: right;">10108E00</p> <p>Switching arrangement no. 011 Contact material: silver-cadmium 2 auxiliary contacts 8006 Connection via usage safety switches Series 8537 only</p>		1	3	5	7	9	01	13	23	0°									90°	X	X	X	X	X	X	X	X		2	4	6	8	10	02	14	24	8543/2-011-002-3
	1	3	5	7	9	01	13	23																													
0°																																					
90°	X	X	X	X	X	X	X	X																													
	2	4	6	8	10	02	14	24																													



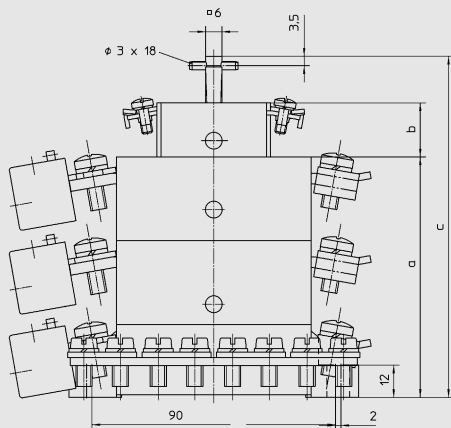
Technical Data				
Version	8543/1 40 A		8543/2 63 A / 80 A	
Explosion protection	⊕ II 2 G EEx de IIC T6		⊕ II 2 G EEx de IIC T6 or T5	
Certificates	PTB 01 ATEX 1059 U		PTB 01 ATEX 1059 U	
Other certificates	IECEX		IECEX	
Enclosure material	epoxy resin		epoxy resin	
Contacts	max. 8 pole / 4 switching levels *)		max. 8 pole / 4 switching levels *)	
Main contacts				
Rated working voltage	690 V AC		690 V AC (63 A), 500 V AC (80 A)	
Rated working current	40 A		63 A / 80 A	
Switching capacity	AC 3: 690 V 40 A		AC 3: 500 V 80 A 690 V 63 A	
	230 V	11 kW	230 V	22 kW
	400 V	22 kW	400 V	37 kW
	500 V	30 kW	500 V	55 kW
	690 V	37 kW	690 V	55 kW
		DC 1: DC 3: DC 5:		DC 1: DC 3: DC 5:
	1 pole:	60 V 63 A 63 A 63 A	1 pole:	60 V 63 A 63 A 63 A
	2 pole:	60 V 63 A 63 A 63 A 110 V 63 A 50 A 40 A	2 pole:	60 V 63 A 63 A 63 A 110 V 63 A 50 A 40 A
	3 pole:	60 V 63 A 63 A 63 A 110 V 63 A 63 A 63 A 220 V 50 A 20 A 10 A	3 pole:	60 V 63 A 63 A 63 A 110 V 63 A 63 A 63 A 220 V 50 A 20 A 10 A
Terminals	4 mm ² ... 16 mm ² solid / flexible 4 mm ² ... 25 mm ² stranded		10 mm ² ... 16 mm ² solid 10 mm ² ... 35 mm ² flexible / stranded	
Life	10 ⁶ operations		10 ⁶ operations	
Auxiliary contacts				
Rated working voltage	690 V AC		690 V AC	
Rated working current	16 A		16 A	
Terminals	1.5 mm ² ... 4 mm ² solid / flexible		1.5 mm ² ... 4 mm ² solid / flexible	
Switching capacity	contact material: silver-cadmium AC 3: 690 V 16 A DC 13: 230 V 0.4 A		contact material: silver-cadmium AC 3: 690 V 16 A DC 13: 230 V 0.4 A	
	contact material: gold-plated min. 24 V / 100 mA		contact material: gold-plated min. 24 V / 100 mA	
Back-up fuse	max. 80 A gL / gG		max. 80 A gL / gG	
Ambient temperature range	- 55 °C ... + 100 °C T6: up to + 55 °C		- 55 °C ... + 100 °C 63 A: T6: up to + 55 °C T5: up to + 60 °C 80 A: T6: up to + 40 °C T5: up to + 55 °C	
Weight	1 switching chamber	approx. 0.9 kg	2 switching chambers	approx. 1.5 kg
	2 switching chambers	approx. 1.5 kg	2 switching chambers and aux. contacts	approx. 1.55 kg
	2 switching chambers and aux. contacts	approx. 1.55 kg	3 switching chambers	approx. 1.9 kg
	3 switching chambers	approx. 1.85 kg	3 switching chambers and aux. contacts	approx. 1.9 kg
	3 switching chambers and aux. contacts	approx. 1.9 kg	4 switching chambers	approx. 2.1 kg
	4 switching chambers	approx. 2.1 kg	4 switching chambers and aux. contacts	approx. 2.1 kg

*) The switches have two switching chambers per level. Individual switching levels with 1 or 2 contacts each to form a unit provide an optimal solution for individual applications. The contact chambers are being operated by the ratched wheels in a staggered fashion, thus enabling all around switching without interference.

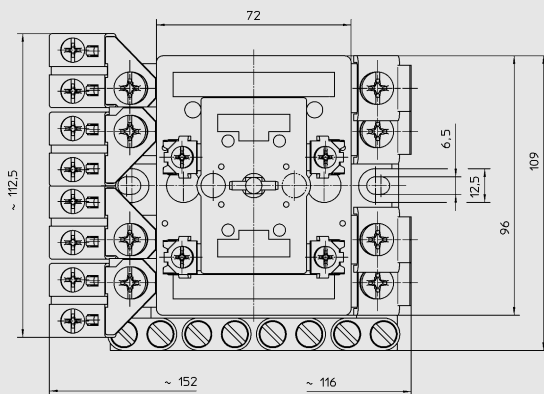
Accessories and Spare Parts

Designation	Illustration	Description	Ordering Code	Weight kg	
Rotary actuator		∅ 122.5 mm; lockable in OFF-position up to 3 padlocks			
		Handle: black / black Symbol disc: 0/OFF - I/ON	8604A0154-1-1	8604815167	0,380
		Handle: red / yellow Symbol disc: 0/OFF - I/ON	8604A0154-1-2	8604816167	0,380
		Handle: red / black Symbol disc: 0/OFF - I/ON	8604A0154-1-3	8604817167	0,380
Symbol discs for rotary actuator		Text 0/OFF - I/ON	8604920850	0,001	
		Text 0/OFF - 1 - 2	8604921850	0,001	
		Text 1 - 2	8604922850	0,001	

Dimension Drawings (all dimensions in mm) - subject to alterations



Switching chamber levels main contacts 8543	Switching chamber levels auxiliary contacts 8006	Dimensions (mm)		
		a	b	c
1	0	58	--	75.5
	1		20	95.5
	2		40	115.5
2	0	89	--	106.5
	1		20	126.5
	2		40	146.5
3	0	120	--	137.5
	1		20	157.5
	2		40	177.5
4	0	151	--	168.5
	1		20	188.5
	2		40	208.5



03453E00

Load and motor switches 40 A, 63 A / 80 A Series 8543

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.