

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 1-pole without Off ST.1							
3 steps		60°	2	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST31	
				32A	M20 . x x x x - -	. ST31	
				64 □ 32A	N20 . x - x - x x	. ST31	
				50A	N33F . x x x - x -	. ST31	
				88 □ 63A	N40 . x - x - x -	. ST31	
80A	N60 . x - x - x -	. ST31					
115A	N80 . x - x - - -	. ST31					
132 □ 150A	N100 . x - x - - -	. ST31					
250A	N200 . x - x - - -	. ST31					
4 steps		60°	2	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST41	
				32A	M20 . x x x x - -	. ST41	
				64 □ 32A	N20 . x - x - x x	. ST41	
				50A	N33F . x x x - x -	. ST41	
				88 □ 63A	N40 . x - x - x -	. ST41	
80A	N60 . x - x - x -	. ST41					
115A	N80 . x - x - - -	. ST41					
132 □ 150A	N100 . x - x - - -	. ST41					
250A	N200 . x - x - - -	. ST41					
5 steps		60°	3	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST51	
				32A	M20 . x x x x - -	. ST51	
				64 □ 32A	N20 . x - x - x x	. ST51	
				50A	N33F . x x x - x -	. ST51	
				88 □ 63A	N40 . x - x - x -	. ST51	
80A	N60 . x - x - x -	. ST51					
115A	N80 . x - x - - -	. ST51					
132 □ 150A	N100 . x - x - - -	. ST51					
250A	N200 . x - x - - -	. ST51					
6 steps		60°	3	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST61	
				32A	M20 . x x x x - -	. ST61	
				64 □ 32A	N20 . x - x - x x	. ST61	
				50A	N33F . x x x - x -	. ST61	
				88 □ 63A	N40 . x - x - x -	. ST61	
80A	N60 . x - x - x -	. ST61					
115A	N80 . x - x - - -	. ST61					
132 □ 150A	N100 . x - x - - -	. ST61					
250A	N200 . x - x - - -	. ST61					
7 steps		45°	4	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST71	
				32A	M20 . x x x x - -	. ST71	
				64 □ 32A	N20 . x - x - x x	. ST71	
				50A	N33F . x - x - x -	. ST71	
				88 □ 63A	N40 . x - x - x -	. ST71	
80A	N60 . x - x - x -	. ST71					
115A	N80 . x - x - - -	. ST71					
132 □ 150A	N100 . x - x - - -	. ST71					
250A	N200 . x - x - - -	. ST71					

Ordering example: AC21 250A panel mounting, multi step switch 1-pole without off, 7 steps **N200 E ST71**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 1-pole without Off ST.1							
8 steps		45°	4	48 □ 20A	M10H . x x x x x ¹⁾ - . ST81		
				32A	M20 . x x x x - - . ST81		
				64 □ 32A	N20 . x - x - x x . ST81		
				50A	N33F . x - x - x - . ST81		
				88 □ 63A	N40 . x - x - x - . ST81		
80A	N60 . x - x - x - . ST81						
115A	N80 . x - x - - - . ST81						
132 □ 150A	N100 . x - x - - - . ST81						
250A	N200 . x - x - - - . ST81						
9 steps		30°	5	48 □ 20A	M10H . x x x x x ¹⁾ - . ST91		
				32A	M20 . x x x x - - . ST91		
				64 □ 32A	N20 . x - x - x x . ST91		
				50A	N33F . x - x - x - . ST91		
				88 □ 63A	N40 . x - x - x - . ST91		
80A	N60 . x - x - x - . ST91						
115A	N80 . x - x - - - . ST91						
132 □ 150A	N100 . x - x - - - . ST91						
250A	N200 . x - x - - - . ST91						
10 steps		30°	5	48 □ 20A	M10H . x x x x x ¹⁾ - . ST101		
				32A	M20 . x x x x - - . ST101		
				64 □ 32A	N20 . x - x - x x . ST101		
				50A	N33F . x - x - x - . ST101		
				88 □ 63A	N40 . x - x - x - . ST101		
80A	N60 . x - x - x - . ST101						
115A	N80 . x - x - - - . ST101						
132 □ 150A	N100 . x - x - - - . ST101						
250A	N200 . x - x - - - . ST101						
11 steps		30°	6	48 □ 20A	M10H . x x x - x ¹⁾ - . ST111		
				32A	M20 . x x x - - - . ST111		
				64 □ 32A	N20 . x - x - x x . ST111		
				50A	N33F . x - x - x - . ST111		
				88 □ 63A	N40 . x - x - x - . ST111		
80A	N60 . x - x - x - . ST111						
115A	N80 . x - x - - - . ST111						
132 □ 150A	N100 . x - x - - - . ST111						
250A	N200 . x - x - - - . ST111						
12 steps		30°	6	48 □ 20A	M10H . x x x - x ¹⁾ - . ST121		
				32A	M20 . x x x - - - . ST121		
				64 □ 32A	N20 . x - x - x x . ST121		
				50A	N33F . x - x - x - . ST121		
				88 □ 63A	N40 . x - x - x - . ST121		
80A	N60 . x - x - x - . ST121						
115A	N80 . x - x - - - . ST121						
132 □ 150A	N100 . x - x - - - . ST121						
250A	N200 . x - x - - - . ST121						

Ordering example: AC21 250A panel mounting, multi step switch 1-pole without off, 12 steps **N200 E ST121**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 1-pole with Off ST0.1							
2 steps		60°	1 48 □ 20A	M10H . x x x x x ¹⁾ - . ST021			
			32A	M20 . x x x x - - . ST021			
			64 □ 32A	N20 . x - x - x x . ST021			
			50A	N33F . x x x - x - . ST021			
			88 □ 63A	N40 . x - x - x - . ST021			
80A	N60 . x - x - x - . ST021						
115A	N80 . x - x - - - . ST021						
132 □ 150A	N100 . x - x - - - . ST021						
250A	N200 . x - x - - - . ST021						
+422							
3 steps		45°	2 48 □ 20A	M10H . x x x x x ¹⁾ - . ST031			
			32A	M20 . x x x x - - . ST031			
			64 □ 32A	N20 . x - x - x x . ST031			
			50A	N33F . x x x - x - . ST031			
			88 □ 63A	N40 . x - x - x - . ST031			
80A	N60 . x - x - x - . ST031						
115A	N80 . x - x - - - . ST031						
132 □ 150A	N100 . x - x - - - . ST031						
250A	N200 . x - x - - - . ST031						
+127							
4 steps		30°	2 48 □ 20A	M10H . x x x x x ¹⁾ - . ST041			
			32A	M20 . x x x x - - . ST041			
			64 □ 32A	N20 . x - x - x x . ST041			
			50A	N33F . x x x - x - . ST041			
			88 □ 63A	N40 . x - x - x - . ST041			
80A	N60 . x - x - x - . ST041						
115A	N80 . x - x - - - . ST041						
132 □ 150A	N100 . x - x - - - . ST041						
250A	N200 . x - x - - - . ST041						
+112							
5 steps		45°	3 48 □ 20A	M10H . x x x x x ¹⁾ - . ST051			
			32A	M20 . x x x x - - . ST051			
			64 □ 32A	N20 . x - x - x x . ST051			
			50A	N33F . x x x - x - . ST051			
			88 □ 63A	N40 . x - x - x - . ST051			
80A	N60 . x - x - x - . ST051						
115A	N80 . x - x - - - . ST051						
132 □ 150A	N100 . x - x - - - . ST051						
250A	N200 . x - x - - - . ST051						
+423							
6 steps		45°	4 48 □ 20A	M10H . x x x x x ¹⁾ - . ST061			
			32A	M20 . x x x x - - . ST061			
			64 □ 32A	N20 . x - x - x x . ST061			
			50A	N33F . x - x - x - . ST061			
			88 □ 63A	N40 . x - x - x - . ST061			
80A	N60 . x - x - x - . ST061						
115A	N80 . x - x - - - . ST061						
132 □ 150A	N100 . x - x - - - . ST061						
250A	N200 . x - x - - - . ST061						
+128							

Ordering example: AC21 250A panel mounting, multi step switch 1-pole with off, 6 steps

N200 E ST061

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 1-pole with Off ST0.1							
7 steps		45°	4	48 □ 20A	M10H . x x x x x ¹⁾ - . ST071		
				32A	M20 . x x x x - - . ST071		
				64 □ 32A	N20 . x - x - - x x . ST071		
				50A	N33F . x - x - - x - . ST071		
				88 □ 63A	N40 . x - x - - x - . ST071		
80A	N60 . x - x - - x - . ST071						
115A	N80 . x - x - - - - . ST071						
132 □ 150A	N100 . x - x - - - - . ST071						
250A	N200 . x - x - - - - . ST071						
8 steps		30°	5	48 □ 20A	M10H . x x x x x ¹⁾ - . ST081		
				32A	M20 . x x x x - - . ST081		
				64 □ 32A	N20 . x - x - - x x . ST081		
				50A	N33F . x - x - - x - . ST081		
				88 □ 63A	N40 . x - x - - x - . ST081		
80A	N60 . x - x - - x - . ST081						
115A	N80 . x - x - - - - . ST081						
132 □ 150A	N100 . x - x - - - - . ST081						
250A	N200 . x - x - - - - . ST081						
9 steps		30°	5	48 □ 20A	M10H . x x x x x ¹⁾ - . ST091		
				32A	M20 . x x x x - - . ST091		
				64 □ 32A	N20 . x - x - - x x . ST091		
				50A	N33F . x - x - - x - . ST091		
				88 □ 63A	N40 . x - x - - x - . ST091		
80A	N60 . x - x - - x - . ST091						
115A	N80 . x - x - - - - . ST091						
132 □ 150A	N100 . x - x - - - - . ST091						
250A	N200 . x - x - - - - . ST091						
10 steps		30°	6	48 □ 20A	M10H . x x x - - x ¹⁾ - . ST0101		
				32A	M20 . x x x - - - - . ST0101		
				64 □ 32A	N20 . x - x - - x x . ST0101		
				50A	N33F . x - x - - x - . ST0101		
				88 □ 63A	N40 . x - x - - x - . ST0101		
80A	N60 . x - x - - x - . ST0101						
115A	N80 . x - x - - - - . ST0101						
132 □ 150A	N100 . x - x - - - - . ST0101						
250A	N200 . x - x - - - - . ST0101						
11 steps		30°	6	48 □ 20A	M10H . x x x - - x ¹⁾ - . ST0111		
				32A	M20 . x x x - - - - . ST0111		
				64 □ 32A	N20 . x - x - - x x . ST0111		
				50A	N33F . x - x - - x - . ST0111		
				88 □ 63A	N40 . x - x - - x - . ST0111		
80A	N60 . x - x - - x - . ST0111						
115A	N80 . x - x - - - - . ST0111						
132 □ 150A	N100 . x - x - - - - . ST0111						
250A	N200 . x - x - - - - . ST0111						

Ordering example: AC21 250A panel mounting, multi step switch 1-pole with off, 11 steps **N200 E ST0111**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
3 steps		60°	3	48 □ 20A 32A	M10H . x x x x x ¹⁾ - M20 . x x x x - -	. ST32 . ST32	
64 □ 32A 50A			N20 . x - x - x x N33F . x x x - x -	. ST32 . ST32			
88 □ 63A 80A 115A			N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST32 . ST32 . ST32			
132 □ 150A 250A			N100 . x - x - - - N200 . x - x - - -	. ST32 . ST32			
4 steps				60°	4	48 □ 20A 32A	
64 □ 32A 50A	N20 . x - x - x x N33F . x - x - x -	. ST42 . ST42					
88 □ 63A 80A 115A	N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST42 . ST42 . ST42					
132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST42 . ST42					
5 steps		60°			5	48 □ 20A 32A	M10H . x x x x x ¹⁾ - M20 . x x x x - -
64 □ 32A 50A			N20 . x - x - x x N33F . x - x - x -	. ST52 . ST52			
88 □ 63A 80A 115A			N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST52 . ST52 . ST52			
132 □ 150A 250A			N100 . x - x - - - N200 . x - x - - -	. ST52 . ST52			
6 steps				60°	6	48 □ 20A 32A	M10H . x x x - x ¹⁾ - M20 . x x x - - -
64 □ 32A 50A	N20 . x - x - x x N33F . x - x - x -	. ST62 . ST62					
88 □ 63A 80A 115A	N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST62 . ST62 . ST62					
132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST62 . ST62					
7 steps		45°			7	48 □ 20A 32A	M10H . x x x - - - M20 . x x x - - -
64 □ 32A 50A			N20 . x - x - x - N33F . x - x - - -	. ST72 . ST72			
88 □ 63A 80A 115A			N40 . x - x - x - N60 . x - x - - - N80 . x - x - - -	. ST72 . ST72 . ST72			
132 □ 150A 250A			N100 . x - x - - - N200 . x - x - - -	. ST72 . ST72			

Ordering example: AC21 250A panel mounting, multi step switch 2-pole without off, 7 steps **N200 E ST72**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 2-pole without Off ST.2							
8 steps		45°	8 48 □ 20A	M10H . x x x - - - . ST82 M20 . x x x - - - . ST82			
			64 □ 32A	N20 . x - x - - - . ST82 N33F . x - x - - - . ST82			
			88 □ 63A	N40 . x - x - - - . ST82 N60 . x - x - - - . ST82 N80 . x - x - - - . ST82			
			132 □ 150A	N100 . x - x - - - . ST82 N200 . x - x - - - . ST82			
			250A				
9 steps		30°	9 48 □ 20A	M10H . x x x - - - . ST92 M20 . x x x - - - . ST92			
			64 □ 32A	N20 . x - x - - - . ST92 N33F . x - x - - - . ST92			
			88 □ 63A	N40 . x - x - - - . ST92 N60 . x - x - - - . ST92 N80 . x - x - - - . ST92			
			132 □ 150A	N100 . x - x - - - . ST92 N200 . x - x - - - . ST92			
			250A				
10 steps		30°	10 48 □ 20A	M10H . x x x - - - . ST102 M20 . x x x - - - . ST102			
			64 □ 32A	N20 . x - x - - - . ST102 N33F . x - x - - - . ST102			
			88 □ 63A	N40 . x - x - - - . ST102 N60 . x - x - - - . ST102 N80 . x - x - - - . ST102			
			132 □ 150A	N100 . x - x - - - . ST102 N200 . x - x - - - . ST102			
			250A				
11 steps		30°	11 48 □ 20A	M10H . x x x - - - . ST112 M20 . x x x - - - . ST112			
			64 □ 32A	N20 . x - x - - - . ST112 N33F . x - x - - - . ST112			
			88 □ 63A	N40 . x - x - - - . ST112 N60 . x - x - - - . ST112 N80 . x - x - - - . ST112			
			132 □ 150A	N100 . x - x - - - . ST112 N200 . x - x - - - . ST112			
			250A				
12 steps		30°	12 48 □ 20A	M10H . x x x - - - . ST122 M20 . x x x - - - . ST122			
			64 □ 32A	N20 . x - x - - - . ST122 N33F . x - x - - - . ST122			
			88 □ 63A	N40 . x - x - - - . ST122 N60 . x - x - - - . ST122 N80 . x - x - - - . ST122			
			132 □ 150A	N100 . x - x - - - . ST122 N200 . x - x - - - . ST122			
			250A				

Ordering example: AC21 250A panel mounting, multi step switch 2-pole without off, 12 steps **N200 E ST122**

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 2-pole with Off ST0.2							
2 steps		60°	2 48 □ 20A	M10H . x x x x x ¹⁾ - . ST022 M20 . x x x x - - . ST022			
			64 □ 32A	N20 . x - x - x x . ST022 N33F . x x x - x - . ST022			
			88 □ 63A	N40 . x - x - x - . ST022 N60 . x - x - x - . ST022 N80 . x - x - - - . ST022			
			132 □ 150A	N100 . x - x - - - . ST022 N200 . x - x - - - . ST022			
			250A				
+422							
3 steps		45°	3 48 □ 20A	M10H . x x x x x ¹⁾ - . ST032 M20 . x x x x - - . ST032			
			64 □ 32A	N20 . x - x - x x . ST032 N33F . x x x - x - . ST032			
			88 □ 63A	N40 . x - x - x - . ST032 N60 . x - x - x - . ST032 N80 . x - x - - - . ST032			
			132 □ 150A	N100 . x - x - - - . ST032 N200 . x - x - - - . ST032			
			250A				
+127							
4 steps		30°	4 48 □ 20A	M10H . x x x x x ¹⁾ - . ST042 M20 . x x x x - - . ST042			
			64 □ 32A	N20 . x - x - x x . ST042 N33F . x - x - x - . ST042			
			88 □ 63A	N40 . x - x - x - . ST042 N60 . x - x - x - . ST042 N80 . x - x - - - . ST042			
			132 □ 150A	N100 . x - x - - - . ST042 N200 . x - x - - - . ST042			
			250A				
+112							
5 steps		45°	6 48 □ 20A	M10H . x x x - x ¹⁾ - . ST052 M20 . x x x - - - . ST052			
			64 □ 32A	N20 . x - x - x x . ST052 N33F . x - x - x - . ST052			
			88 □ 63A	N40 . x - x - x - . ST052 N60 . x - x - x - . ST052 N80 . x - x - - - . ST052			
			132 □ 150A	N100 . x - x - - - . ST052 N200 . x - x - - - . ST052			
			250A				
+423							
6 steps		45°	7 48 □ 20A	M10H . x x x - x ¹⁾ - . ST062 M20 . x x x - - - . ST062			
			64 □ 32A	N20 . x - x - x - . ST062 N33F . x - x - - - . ST062			
			88 □ 63A	N40 . x - x - x - . ST062 N60 . x - x - - - . ST062 N80 . x - x - - - . ST062			
			132 □ 150A	N100 . x - x - - - . ST062 N200 . x - x - - - . ST062			
			250A				
+128							

Ordering example: AC21 250A panel mounting, multi step switch 2-pole with off, 6 steps

N200 E ST062

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 2-pole with Off ST0.2							
7 steps		45°	8	48 □ 20A 32A	M10H . x x x - - - . M20 . x x x - - - .	ST072 ST072	
			64 □	32A 50A	N20 . x - x - x - . N33F . x - x - - - .	ST072 ST072	
			88 □	63A 80A 115A	N40 . x - x - x - . N60 . x - x - - - . N80 . x - x - - - .	ST072 ST072 ST072	
			132 □	150A 250A	N100 . x - x - - - . N200 . x - x - - - .	ST072 ST072	
8 steps		30°	9	48 □ 20A 32A	M10H . x x x - - - . M20 . x x x - - - .	ST082 ST082	
			64 □	32A 50A	N20 . x - x - - - . N33F . x - x - - - .	ST082 ST082	
			88 □	63A 80A 115A	N40 . x - x - - - . N60 . x - x - - - . N80 . x - x - - - .	ST082 ST082 ST082	
			132 □	150A 250A	N100 . x - x - - - . N200 . x - x - - - .	ST082 ST082	
9 steps		30°	10	48 □ 20A 32A	M10H . x x x - - - . M20 . x x x - - - .	ST092 ST092	
			64 □	32A 50A	N20 . x - x - - - . N33F . x - x - - - .	ST092 ST092	
			88 □	63A 80A 115A	N40 . x - x - - - . N60 . x - x - - - . N80 . x - x - - - .	ST092 ST092 ST092	
			132 □	150A 250A	N100 . x - x - - - . N200 . x - x - - - .	ST092 ST092	
10 steps		30°	11	48 □ 20A 32A	M10H . x x x - - - . M20 . x x x - - - .	ST0102 ST0102	
			64 □	32A 50A	N20 . x - x - - - . N33F . x - x - - - .	ST0102 ST0102	
			88 □	63A 80A 115A	N40 . x - x - - - . N60 . x - x - - - . N80 . x - x - - - .	ST0102 ST0102 ST0102	
			132 □	150A 250A	N100 . x - x - - - . N200 . x - x - - - .	ST0102 ST0102	
11 steps		30°	12	48 □ 20A 32A	M10H . x x x - - - . M20 . x x x - - - .	ST0112 ST0112	
			64 □	32A 50A	N20 . x - x - - - . N33F . x - x - - - .	ST0112 ST0112	
			88 □	63A 80A 115A	N40 . x - x - - - . N60 . x - x - - - . N80 . x - x - - - .	ST0112 ST0112 ST0112	
			132 □	150A 250A	N100 . x - x - - - . N200 . x - x - - - .	ST0112 ST0112	

Ordering example: AC21 250A panel mounting, multi step switch 2-pole with off, 11 steps **N200 E ST0112**

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
3 steps		60°	5	48 □ 20A 32A	M10H . x x x x x ¹⁾ - M20 . x x x x - -	. ST33 . ST33	
				64 □ 32A 50A	N20 . x - x - x x N33F . x - x - x -	. ST33 . ST33	
				88 □ 63A 80A 115A	N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST33 . ST33 . ST33	
				132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST33 . ST33	
4 steps		60°	6	48 □ 20A 32A	M10H . x x x - x ¹⁾ - M20 . x x x - - -	. ST43 . ST43	
				64 □ 32A 50A	N20 . x - x - x x N33F . x - x - x -	. ST43 . ST43	
				88 □ 63A 80A 115A	N40 . x - x - x - N60 . x - x - x - N80 . x - x - - -	. ST43 . ST43 . ST43	
				132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST43 . ST43	
5 steps		60°	8	48 □ 20A 32A	M10H . x x x - - - M20 . x x x - - -	. ST53 . ST53	
				64 □ 32A 50A	N20 . x - x - x - N33F . x - x - - -	. ST53 . ST53	
				88 □ 63A 80A 115A	N40 . x - x - x - N60 . x - x - - - N80 . x - x - - -	. ST53 . ST53 . ST53	
				132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST53 . ST53	
6 steps		60°	9	48 □ 20A 32A	M10H . x x x - - - M20 . x x x - - -	. ST63 . ST63	
				64 □ 32A 50A	N20 . x - x - - - N33F . x - x - - -	. ST63 . ST63	
				88 □ 63A 80A 115A	N40 . x - x - - - N60 . x - x - - - N80 . x - x - - -	. ST63 . ST63 . ST63	
				132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST63 . ST63	
7 steps		45°	11	48 □ 20A 32A	M10H . x x x - - - M20 . x x x - - -	. ST73 . ST73	
				64 □ 32A 50A	N20 . x - x - - - N33F . x - x - - -	. ST73 . ST73	
				88 □ 63A 80A 115A	N40 . x - x - - - N60 . x - x - - - N80 . x - x - - -	. ST73 . ST73 . ST73	
				132 □ 150A 250A	N100 . x - x - - - N200 . x - x - - -	. ST73 . ST73	

Ordering example: AC21 250A panel mounting, multi step switch 3-pole without off, 7 steps **N200 E ST73**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 3-pole without Off ST.3							
8 steps		45°	12 48 □ 20A	M10H . x x x - - - . ST83 M20 . x x x - - - . ST83			
			64 □ 32A	N20 . x - x - - - . ST83 N33F . x - x - - - . ST83			
			88 □ 63A	N40 . x - x - - - . ST83 N60 . x - x - - - . ST83 N80 . x - x - - - . ST83			
			132 □ 150A	N100 . x - x - - - . ST83 N200 . x - x - - - . ST83			
			250A				
9 steps		30°	14 48 □ 20A	M10H . x - x - - - . ST93 M20 . x - x - - - . ST93			
			64 □ 32A	N20 . x - x - - - . ST93 N33F . x - x - - - . ST93			
			88 □ 63A	N40 . x - x - - - . ST93 N60 . x - x - - - . ST93 N80 . x - x - - - . ST93			
			132 □ 150A	N100 . x - x - - - . ST93 N200 . x - x - - - . ST93			
			250A				
10 steps		30°	15 48 □ 20A	M10H . x - x - - - . ST103 M20 . x - x - - - . ST103			
			64 □ 32A	N20 . x - x - - - . ST103 N33F . x - x - - - . ST103			
			88 □ 63A	N40 . x - x - - - . ST103 N60 . x - x - - - . ST103 N80 . x - x - - - . ST103			
			132 □ 150A	N100 . x - x - - - . ST103 N200 . x - x - - - . ST103			
			250A				
11 steps		30°	17 48 □ 20A	M10H . x - x - - - . ST113 M20 . x - x - - - . ST113			
			64 □ 32A	N20 . x - x - - - . ST113 N33F . x - x - - - . ST113			
			88 □ 63A	N40 . x - x - - - . ST113 N60 . x - x - - - . ST113 N80 . x - x - - - . ST113			
			132 □ 150A	N100 . x - x - - - . ST113 N200 . x - x - - - . ST113			
			250A				
12 steps		30°	18 48 □ 20A	M10H . x - x - - - . ST123 M20 . x - x - - - . ST123			
			64 □ 32A	N20 . x - x - - - . ST123 N33F . x - x - - - . ST123			
			88 □ 63A	N40 . x - x - - - . ST123 N60 . x - x - - - . ST123 N80 . x - x - - - . ST123			
			132 □ 150A	N100 . x - x - - - . ST123 N200 . x - x - - - . ST123			
			250A				

Ordering example: AC21 250A panel mounting, multi step switch 3-pole without off, 12 steps **N200 E ST123**

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate	
Multi step switches 3-pole with Off ST0.3								
2 steps		60°	3	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST023		
				32A	M20 . x x x x - -	. ST023		
				64 □ 32A	N20 . x - x - x x	. ST023		
				50A	N33F . x x x - x -	. ST023		
				88 □ 63A	N40 . x - x - x -	. ST023		
80A	N60 . x - x - x -	. ST023						
115A	N80 . x - x - - -	. ST023						
132 □ 150A	N100 . x - x - - -	. ST023	+422 					
250A	N200 . x - x - - -	. ST023						
3 steps		45°		5	48 □ 20A	M10H . x x x x x ¹⁾ -	. ST033	
					32A	M20 . x x x x - -	. ST033	
					64 □ 32A	N20 . x - x - x x	. ST033	
			50A		N33F . x - x - x -	. ST033		
			88 □ 63A		N40 . x - x - x -	. ST033		
80A	N60 . x - x - x -	. ST033						
115A	N80 . x - x - - -	. ST033						
132 □ 150A	N100 . x - x - - -	. ST033	+127 					
250A	N200 . x - x - - -	. ST033						
4 steps		30°		6	48 □ 20A	M10H . x x x - x ¹⁾ -	. ST043	
					32A	M20 . x x x - - -	. ST043	
					64 □ 32A	N20 . x - x - x x	. ST043	
			50A		N33F . x - x - x -	. ST043		
			88 □ 63A		N40 . x - x - x -	. ST043		
80A	N60 . x - x - x -	. ST043						
115A	N80 . x - x - - -	. ST043						
132 □ 150A	N100 . x - x - - -	. ST043	+112 					
250A	N200 . x - x - - -	. ST043						
5 steps		45°		9	48 □ 20A	M10H . x x x - - -	. ST053	
					32A	M20 . x x x - - -	. ST053	
					64 □ 32A	N20 . x - x - - -	. ST053	
			50A		N33F . x - x - - -	. ST053		
			88 □ 63A		N40 . x - x - - -	. ST053		
80A	N60 . x - x - - -	. ST053						
115A	N80 . x - x - - -	. ST053						
132 □ 150A	N100 . x - x - - -	. ST053	+423 					
250A	N200 . x - x - - -	. ST053						
6 steps		45°		11	48 □ 20A	M10H . x x x - - -	. ST063	
					32A	M20 . x x x - - -	. ST063	
					64 □ 32A	N20 . x - x - - -	. ST063	
			50A		N33F . x - x - - -	. ST063		
			88 □ 63A		N40 . x - x - - -	. ST063		
80A	N60 . x - x - - -	. ST063						
115A	N80 . x - x - - -	. ST063						
132 □ 150A	N100 . x - x - - -	. ST063	+128 					
250A	N200 . x - x - - -	. ST063						

Ordering example: AC21 250A panel mounting, multi step switch 3-pole with off, 6 steps **N200 E ST063**

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Multi step switches 3-pole with Off ST0.3							
7 steps		45°	12 48 □ 20A	M10H . x x x - - - . ST073 M20 . x x x - - - . ST073			
			64 □ 32A	N20 . x - x - - - . ST073 N33F . x - x - - - . ST073			
			88 □ 63A	N40 . x - x - - - . ST073 N60 . x - x - - - . ST073 N80 . x - x - - - . ST073			
			132 □ 150A	N100 . x - x - - - . ST073 N200 . x - x - - - . ST073			
8 steps		30°	14 48 □ 20A	M10H . x - x - - - . ST083 M20 . x - x - - - . ST083			
			64 □ 32A	N20 . x - x - - - . ST083 N33F . x - x - - - . ST083			
			88 □ 63A	N40 . x - x - - - . ST083 N60 . x - x - - - . ST083 N80 . x - x - - - . ST083			
			132 □ 150A	N100 . x - x - - - . ST083 N200 . x - x - - - . ST083			
9 steps		30°	15 48 □ 20A	M10H . x - x - - - . ST093 M20 . x - x - - - . ST093			
			64 □ 32A	N20 . x - x - - - . ST093 N33F . x - x - - - . ST093			
			88 □ 63A	N40 . x - x - - - . ST093 N60 . x - x - - - . ST093 N80 . x - x - - - . ST093			
			132 □ 150A	N100 . x - x - - - . ST093 N200 . x - x - - - . ST093			
10 steps		30°	17 48 □ 20A	M10H . x - x - - - . ST0103 M20 . x - x - - - . ST0103			
			64 □ 32A	N20 . x - x - - - . ST0103 N33F . x - x - - - . ST0103			
			88 □ 63A	N40 . x - x - - - . ST0103 N60 . x - x - - - . ST0103 N80 . x - x - - - . ST0103			
			132 □ 150A	N100 . x - x - - - . ST0103 N200 . x - x - - - . ST0103			
11 steps		30°	18 48 □ 20A	M10H . x - x - - - . ST0113 M20 . x - x - - - . ST0113			
			64 □ 32A	N20 . x - x - - - . ST0113 N33F . x - x - - - . ST0113			
			88 □ 63A	N40 . x - x - - - . ST0113 N60 . x - x - - - . ST0113 N80 . x - x - - - . ST0113			
			132 □ 150A	N100 . x - x - - - . ST0113 N200 . x - x - - - . ST0113			

Ordering example: AC21 250A panel mounting, multi step switch 3-pole with off, 11 steps **N200 E ST0113**