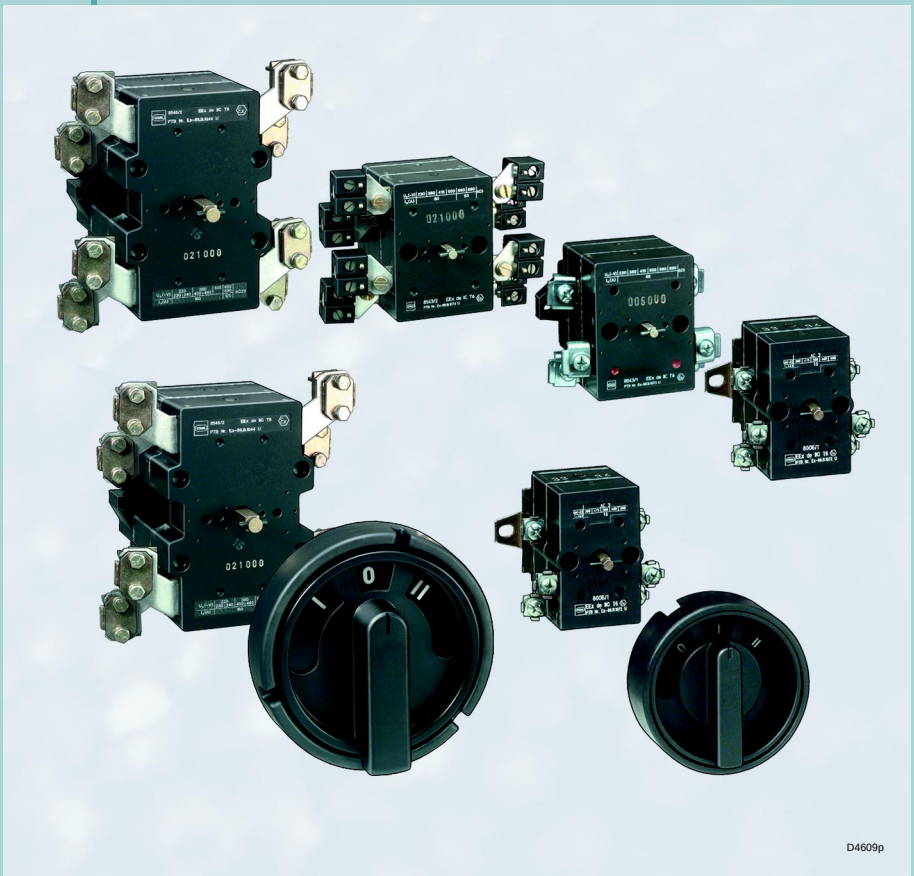


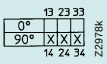
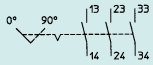
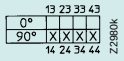
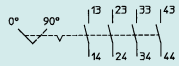
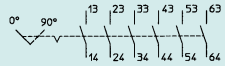
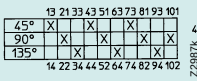
Circuit Interrupters/
Motor Switches
Series 8006, 8543, 8548

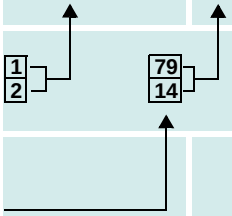
- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Isolator features
- Switching capacity
- Rated working voltage
  up to 690 V
- Rated working current
  Series 8006: 16/25 A
  8543: 40/63/80 A
  8548: 125/160 A
- Different switching sequences
  available
- Primary contacts up to 12 poles
- Auxiliary contacts optional

Circuit interrupters/motor switches in the 8006, 8543 and 8548 series meet 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 EEx e "increased safety" standard.

Zone 1 and Zone 2

Selection table

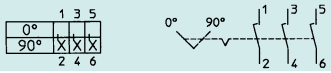
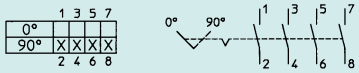
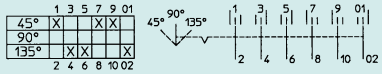
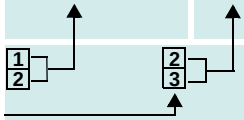
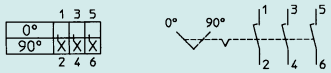
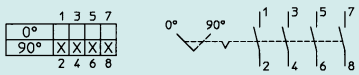
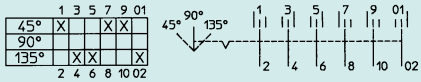
Version	Load and motor switch **8006**	Switching arrangements Examples	**Ordering code** **Type number (for individual order)**	**Assembly (code for fitting)**	Weight [kg]
 Circuit interrupters/ motor switch 16/25 A	3-pole 		**8006/☐–045–00**	☐**1/045**	0,29
	4-pole 		**8006/☐–003–00**	☐**1/003**	0,36
	6-pole 		**8006/☐–025–00**	☐**1/025**	0,42
	8-pole 		**8006/☐–033–00**	☐**1/033**	0,53
	10-pole 		**8006/☐–021–00**	☐**1/021**	0,64
	Add. to ordering code: switch rated current 16 A 20/25 A				
Note	The contact arrangements are examples, any other 1- to 12-pole version is available. Assembly code for fitting in distribution enclosures example 8146				



Technical data

Type/size	8006/1 (16 A)				8006/2 (20/25 A)				
Explosion protection	EEx de IIC T6								
Test certificate	PTB Nr. Ex-88.B.1072 U								
Enclosure material	Epoxy resin								
Main contacts	max. 12-pole / 6 switching levels								
Rated working voltage	690 V, AC				660 V, AC (25 A)/690 V, AC (20 A)				
Rated working current	16 A				25 A (660 V), 20 A (690 V)				
Switching capacity to VDE 0660 T 107 EN 60947 12/92	Switching duty AC 3, cos φ = 0,7								
	220 V 230 V 240 V	380 V 400 V 415 V	500 V	660 V	220 V 230 V 240 V	380 V 400 V 415 V	500 V	660 V	690 V
	4.5 kW	7,5 kW	10 kW	13 kW	7,5 kW	11 kW	18,5 kW	22 kW	18 kW
	DC 60 V –	110 V –	220 V –		DC 60 V –	110 V –	220 V –		
	DC 1 L/R = 0 ms				DC 1 L/R = 1 ms				
	–	–	0,16 A		25 A 1 p	25 A 2 p	16 A 3 p		
	DC 11 L/R = 100 ms				DC 11 L/R = 100 ms				
	1 A	0,6 A	0,4 A		4 A 1 p	4 A 2 p	4 A 3 p		
Short circuit protection	EN 60947-4-1: 199; VDE 0660 T 102 Conditional rated short-circuit current 3kA at 50 A back-fuse, association type 1								
Terminals	4/6 mm^2 flexible/solid				6/10 mm^2 flexible/solid				
Ambient temperature	– 20° C ... + 40° C								

Selection table

Version	Load and motor switch **8543**	Switching arrangements Examples	**Ordering code** **Type number (for individual order)**	**Assembly (code for fitting)**	Weight [kg]
 Circuit interrupters/ motor switch 40/63/80 A	3-pole		**8543/□–006–000**	**14□/006**	1,40/1,63
	4-pole		**8543/□–021–000**	**14□/021**	1,45/1,75
	6-pole		**8543/□–020–000**	**14□/020**	1,90/2,35
	Add. to ordering code: Switch rated current 40 A 63/80 A Assembly code for fitting in distribution enclosures example 8146				
8548 Load and motor switch					
 Circuit interrupters/ motor switch 125/160 A	3-pole		**8548/2–006–000**	**144/006**	3,5
	4-pole		**8548/2–021–000**	**144/021**	3,7
	6-pole		**8548/2–020–000**	**144/020**	5,1
Note	The contact arrangements are examples, any other 1- to 12-pole version is available.				

Technical data

8543/1 40 A-switch	8543/2 63/80 A-switch	8548/2 125/160 A-switch
EEx de IIC T6 PTB Nr. Ex-88.B.1073 U Epoxy resin	EEx de IIC T6 PTB Nr. Ex-88.B.1073 U Epoxy resin	EEx de IIC T6 PTB Nr. Ex-88.B.1044 U Epoxy resin
max. 8-pole/4 switching levels 690 V, AC max. 40 A, AC 1 switching duty: AC 3, cos φ = 0,7	max. 8-pole/4 switching levels 690 V, AC 690 V, AC. max: 63 A / 500 V,AC: max. 80 A switching duty: AC 3, cos φ = 0,7	max. 8-pole/4 switching levels 690 V, AC max. 125 A, AC, 125 A (660 V) / 160 A / 500 V switching duty: AC 3, cos φ = 0,7

220 V ~ 230 V ~ 240 V ~	380 V ~ 400 V ~ 415 V ~	500 V ~	660 V ~ 690 V ~
11 kW	22 kW	30 kW	37 kW

220 V ~ 230 V ~ 240 V ~	380 V ~ 400 V ~ 415 V ~	500 V ~	660 V ~ 690 V ~
22 kW	37 kW	45 kW	50 kW

	AC 3		AC 23	
U [V]	I [A]	P [kW]	I [A]	P [kW]
220 230 240	125	30	160	37
380 400 440	125	55	160	55
500	125	75	160	90
660/690	100	75	125	90

DC switching duty
see 8543/2

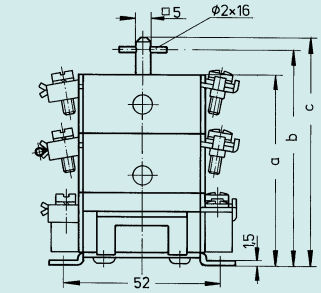
DC	40 V –	110 V –		
DC 11 L/R = 15 ms	80 A/ 1 p	6 A/ 1 p	50 A/ 2 p	63 A/ 3 p
DC 4	50 A/ 1 p	–	40 A/ 2 p	50 A/ 3 p

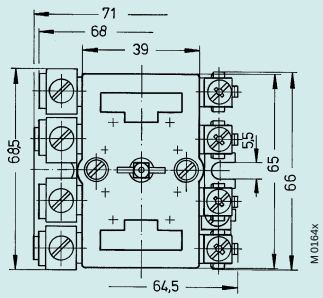
DC	60 V –	110 V –	220 V –
DC 1	63 A/1 p	63 A/2 p	50 A/3 p

DC	60 V –	110 V –	220 V –
DC 1	125 A/ 1/2 p	125 A/ (1/2/3 p)	125 A/ (2/3 p)
DC 2 + 3	125 A/ 1/2 p	80 A/1 p 125 A/ 2/3 p	125 A/ 2/3 p
DC 4 + 5	80 A/1 p 125 A/2 p	80 A/2 p 125 A/3 p	40 A/2 p 80 A/3 p

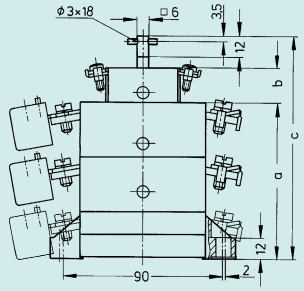
1,5 to 16/25 mm² flexible/solid	1,5 to 25/35 mm² flexible/solid	95/120 mm² flexible/solid
– 20° C ... + 40° C	– 20° C ... + 40° C	– 20° C ... + 40° C

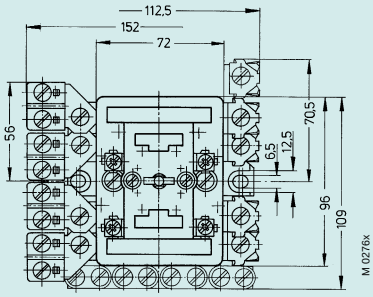
Dimensions, all dimensions in mm – subject to alteration





Control and motor switches, 8006

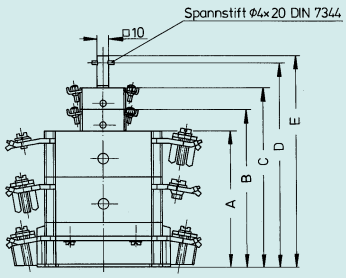


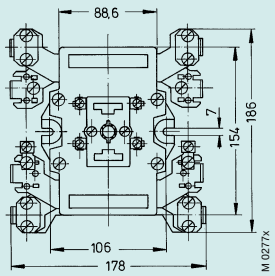


Load and motor switches, 8543

Switching chamber levels	a	b	c
1	44	52	58
2	64	72	76
3	84	92	96
4	104	112	116
5	124	132	136
6	144	152	156

Switching chamber levels 8543	Switching chamber levels aux. contacts 8008	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





Load and motor switches, 8548

Switching chamber levels 8548	Switching chamber levels aux. contacts 8008	Dimensions [mm]				
		A	B	C	D	E
1	0	82	–	–	101,5	107,5
	1		102	–	143,5	149,5
	2		–	122	143,5	149,5
2	0	124	–	–	143,5	149,5
	1		144	–	178,5	178,5
	2		–	164	185,5	191,5
3	0	166	–	–	185,5	191,5
	1		185	–	207,5	213,5
	2		–	206	232,5	238,5
4	0	208	–	–	232,5	238,5
	1		228	–	262,5	268,5
	2		–	248	262,5	268,5