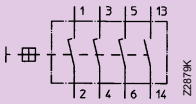
Safety Switches
Series 8537

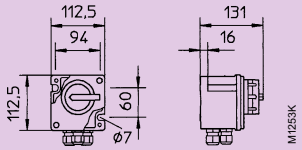
- 3- and 6-pole safety switches
  10 A, 16 A, 25 A, 40 A, 63/80 A,
  125/160 A, 250 A
- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Motor switching capacity AC 23
  to IEC 947-3, EN 60 947,
  DIN VDE 0660 part 107
- With or without up stream contact
- Definite opening for main contacts
- Isolating switches to VDE 0660
- Can be padlocked
  in “OFF” position
- Non-reversible switch
  with defined switch position
- High level of corrosion resistance
  in external components
- Marked with signal orange label
  “Safety Switch”

STAHL

Safety switches ensure the obligatory isolation of electrical power under condition of equipment cleaning, maintenance and repair. Other methods of isolation, e.g. removal of fuses or disconnection of motors, which require qualified electricians are unnecessary.

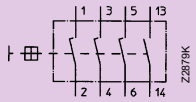
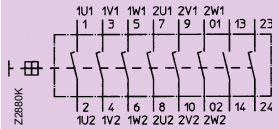
Zone 1 and Zone 2

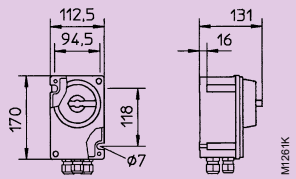
Safety switches 10 A		3-pole	6-pole
 D4377P	**Ordering code**	**8537/2-701-7000**	–
	Switch circuit	 Z2879K	
	Cable entries	2 x M25 x 1,5; 1 x M20 x 1,5	– –
	Weight	1,2 kg	–



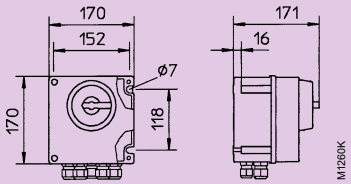
8537/2-701, 10 A, 3-pole

Technical data	
Explosion protection	EEx de IIC T6
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts Rated operating voltage U_e Rated operating current I_e Number of poles Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	 690 V, AC 10 A (690 V, AC); 16 A (500 V, AC) 3-pole to AC 23 U_e / P 230 V ~ / 2,2 kW 400 V ~ / 4,0 kW 500 V ~ / 5,5 kW 690 V ~ / 7,5 kW
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	35 A; tripping characteristic: gL/gG to DIN VDE 0636, Part 10
Terminals	2,5/4 mm², flexible/solid
Auxiliary contacts Rated operating voltage U_e Rated operating current I_e Terminals	1 NO (ON delayed - OFF advanced) 500 V, AC 10 A 4/6 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in position “ON” removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 65
Ambient temperature	– 20 °C ... + 40 °C

Safety switches 16 A	3-pole	6-pole
	**Ordering code**	**8537/2-702-7000**	**8537/2-802-8000**
	Switch circuit		
	Cable entries	2 x M25 x 1,5; 1 x M20 x 1,5	4 x M25 x 1,5; 1 x M20 x 1,5
	Weight	1,5 kg	2,5 kg

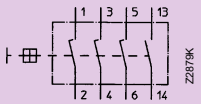
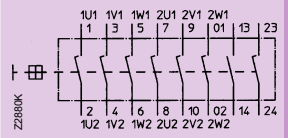


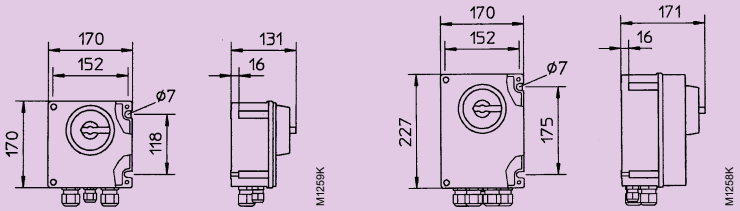
8537/2-702, 16 A, 3-pole



8537/2-802, 16-A, 6-pole

Technical data	
Explosion protection	EEx de IIC T6
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts Rated operating voltage U_e Rated operating current I_e Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	 690 V, AC 16 A to AC 23 U_e | P 230 V ~ | 4,0 kW 400 V ~ | 7,5 kW 500 V ~ | 10,0 kW 690 V ~ | 13,0 kW
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	50 A; tripping characteristic: gL/gG to DIN VDE 0636, Part 10
Terminals	4/6 mm², flexible/solid
Auxiliary contacts Switch 3-pole Switch 6-pole Rated operating voltage U_e Rated operating current I_e Terminals	 1 NO (ON delayed - OFF advanced) 2 NO (1 x ON delayed - OFF advanced/1 x normal switched) 500 V, AC 10 A 4/6 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 65
Ambient temperature	– 20 °C ... + 40 °C

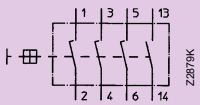
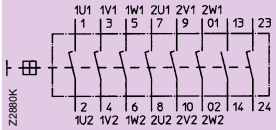
Safety switches 25 A	3-pole	6-pole
	Ordering code	**8537/2-703-7000**	**8537/2-803-8000**
	Switch circuit		
	Cable entries	2 x M32 x 1,5; 1 x M20 x 1,5	4 x M25 x 1,5; 1 x M20 x 1,5
	Weight	2,0 kg	3,5 kg

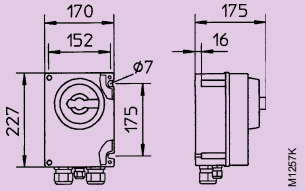


8537/2-703, 25 A, 3-pole

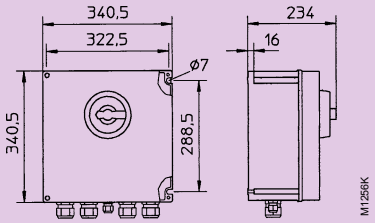
8537/2-803, 25 A, 6-pole

Technical data	
Explosion protection	EEx de IIC T6
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts	
Rated operating voltage U_e	690 V, AC
Rated operating current I_e	25 A
Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	to AC 23 U_e — P 230 V ~ — 7,5 kW 400 V ~ — 13,5 kW 500 V ~ — 15,0 kW 690 V ~ — 22,0 kW
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	50 A; tripping characteristic: gL/gG to DIN VDE 0636, Part 10
Terminals	6/10 mm², flexible/solid
Auxiliary contacts	
Switch 3-pole	1 NO (ON delayed - OFF advanced)
Switch 6-pole	2 NO (1 x ON delayed - OFF advanced/1 x normal switched)
Rated operating voltage U_e	500 V, AC
Rated operating current I_e	10 A
Terminals	4/6 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 65
Ambient temperature	– 20 °C ... + 40 °C

Safety switches 40 A	3-pole	6-pole
	Ordering code	**8537/2-705-7000**	**8537/2-805-8000**
	Switch circuit		
	Cable entries	2 x M40 x 1,5; 1 x M20 x 1,5	4 x M40 x 1,5; 1 x M20 x 1,5
	Weight	3,5 kg	7,2 kg

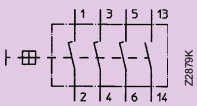
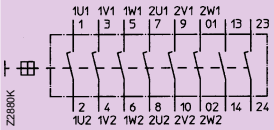


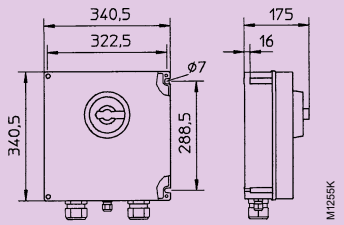
8537/2-705, 40 A, 3-pole



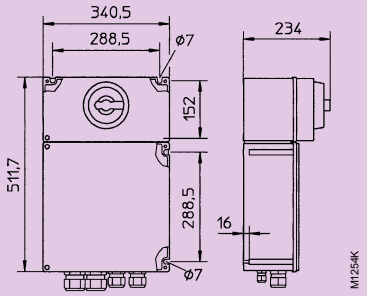
8537/2-805, 40 A, 6-pole

Technical data	
Explosion protection	EEx de IIC T6
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts	
Rated operating voltage U_e	690 V, AC
Rated operating current I_e	40 A
Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	to AC 23 U_e — P 230 V ~ — 11 kW 400 V ~ — 22 kW 500 V ~ — 30 kW 690 V ~ — 37 kW
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	80 A; tripping characteristic: gL/gG to DIN VDE 0636, Part 10
Terminals	16 mm², flexible/solid
Auxiliary contacts	
Switch 3-pole	1 NO (ON delayed - OFF advanced)
Switch 6-pole	2 NO (1 x ON delayed - OFF advanced/1 x normal switched)
Rated operating voltage U_e	500 V, AC
Rated operating current I_e	10 A
Terminals	4/6 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 65
Ambient temperature	– 20 °C ... + 40 °C

Safety switches 63 A / 80 A	3-pole	6-pole
	**Ordering code**	**8537/2-706-7000**	**8537/2-806-8000**
	Switch circuit		
	Cable entries	2 x M50 x 1,5; 1 x M20 x 1,5	2 x M50 x 1,5; 2 x M40 x 1,5; 1 x M20 x 1,5
	Weight	5,8 kg	10,4 kg

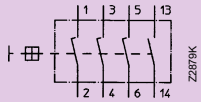
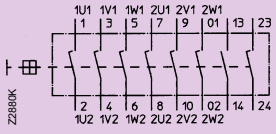


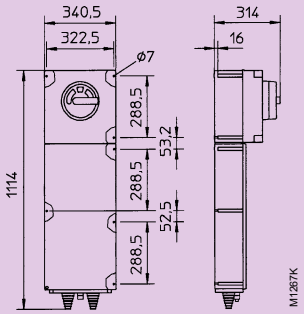
8537/2-706, 63/80 A, 3-pole



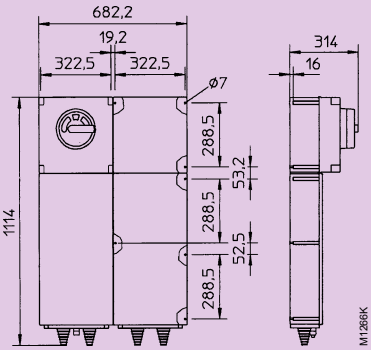
8537/2-806, 63/80 A, 6-pole

Technical data	
Explosion protection	EEx de IIC T6
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts	
Rated operating voltage U_e	500 V (80 A)/690 V (63 A)
Rated operating current I_e	63/80 A
Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	to AC 23 U_e | P at T6/63 A | T5/80 A 230 V ~ | 18,5 kW | 25 kW 400 V ~ | 30 kW | 40 kW 690 V ~ | 55 kW | –
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	63 A: 100 A, gL/gG 80 A: 125 A, gL/gG
Terminals	35 mm², flexible/solid
Auxiliary contacts	
Switch 3-pole	1 NO (ON delayed - OFF advanced)
Switch 6-pole	2 NO (1 x ON delayed - OFF advanced/1 x normal switching)
Rated operating voltage U_e	500 V, AC
Rated operating current I_e	10 A
Terminals	4/6 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 65
Ambient temperature	– 20 °C ... + 40 °C

Safety switches 125 A / 160 A	3-pole	6-pole
	Ordering code	**8537/2-709-7000**	**8537/2-809-8000**
	Switch circuit		
	Cable entries	1x flange plate for 2 cables ∅ 16...65 mm; 1x M20 x 1,5	2x flange plates for 2 cables ∅ 16...65 mm; 1x M20 x 1,5
	Weight	27 kg	47 kg

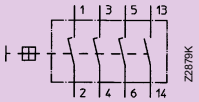
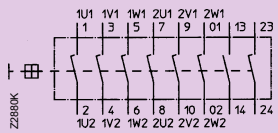


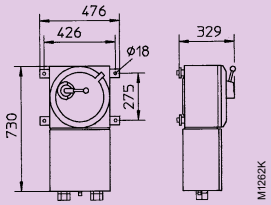
8537/2-709, 125/160 A, 3-pole



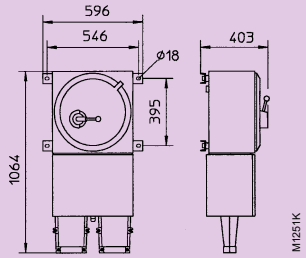
8537/2-809, 125/160 A, 6-pole

Technical data	
Explosion protection	EEx de IIC T6/T5
Test certificate	PTB No. Ex-92.C.1095 other certificates: VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts	
Rated operating voltage U_e	500 V (160 A)/690 V (125 A)
Rated operating current I_e	160/125 A
Switching capacity (to IEC 947-3; EN 60 947; DIN VDE 0660, Part 107)	to AC 23 U_e | P at T6/125 A | T5/160 A 230 V ~ | 37 kW | 50 kW 400 V ~ | 75 kW | 85 kW 690 V ~ | 110 kW | –
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	> 10^5 Operations
Max. back-up fuse	200 A, gL/gG
Terminals	120 mm², stranded
Auxiliary contacts	
Switch 3-pole	1 NO (ON delayed - OFF advanced)
Switch 6-pole	2 NO (1 x ON delayed - OFF advanced/1 x normal switching)
Rated operating voltage U_e	500 V, AC
Rated operating current I_e	6 A
Terminals	4 mm², flexible/solid
Enclosure material	Polyester resin
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	in 0-position padlockable in 3 positions, colour: handle black, protective collar black, special version: protective handle red, collar yellow
Degree of protection	IP 55
Ambient temperature	– 20 °C ... + 40 °C

Safety switches 250 A		3-pole	6-pole
	**Ordering code**	**8537/7-712-7000**	**8537/7-812-8000**
	Switch circuit		
	Cable entries	2 x M63 x 1,5; 1 x M20 x 1,5	Compression glands 2 x cable dividing boxes, each with 2 entries
	Weight	55 kg	75 kg



8537/7-712, 250 A, 3-pole



8537/7-812, 250 A, 6-pole

Technical data	
Explosion protection	EEx de IIC T5
Test certificate	PTB No. Ex-94.C.1065 other certificates: ISSeP (Belgium); PTB, BVS / DMV (German Federal Republic); LCIE (France); ERA (Great Britain); SZS (Yugoslavia); NEMKO (Norway); ETVA, TÜV Vienna (Austria); VNIIEF (Russia); SEV (Switzerland); FTZU (Czech Republic); BKI (Hungary)
Main contacts Rated operating voltage U_e Rated operating current I_e Switching capacity (to IEC 947-3, EN 60 947, DIN VDE 0660, Part 107)	 690 V, AC 250 A to AC 23 U_e | P 230 V ~ | 75 kW 400 V ~ | 132 kW 690 V ~ | 200 kW
Rated isolation voltage U_i	690 V
Rated surge voltage resistance U_{imp}	6 kV
Life electrical/mechanical	3 x 10^4 / > 5 x 10^3 Operations
Max. back-up fuse	315 A, gl
Terminals	120 mm², stranded
Auxiliary contacts Switch 3-pole Switch 6-pole Rated operating voltage U_e Rated operating current I_e Terminals	 1 NO (ON delayed - OFF advanced) 2 NO (1 x ON delayed - OFF advanced/1 x normal switching) 500 V, AC 6 A 4 mm², flexible
Enclosure material	Ex d-enclosure: sheet steel; cover die-cast alloy Ex e-enclosure: sheet steel, galvanized Colour: primer coat (2 component paint) Top coat: stove enamel, textured finish, grey
Enclosure cover	in “ON” position removable, in “OFF” position interlocked
Switch handle	black handle, with soldered-on collar
Degree of protection	IP 55
Ambient temperature	– 20 °C ... + 40 °C