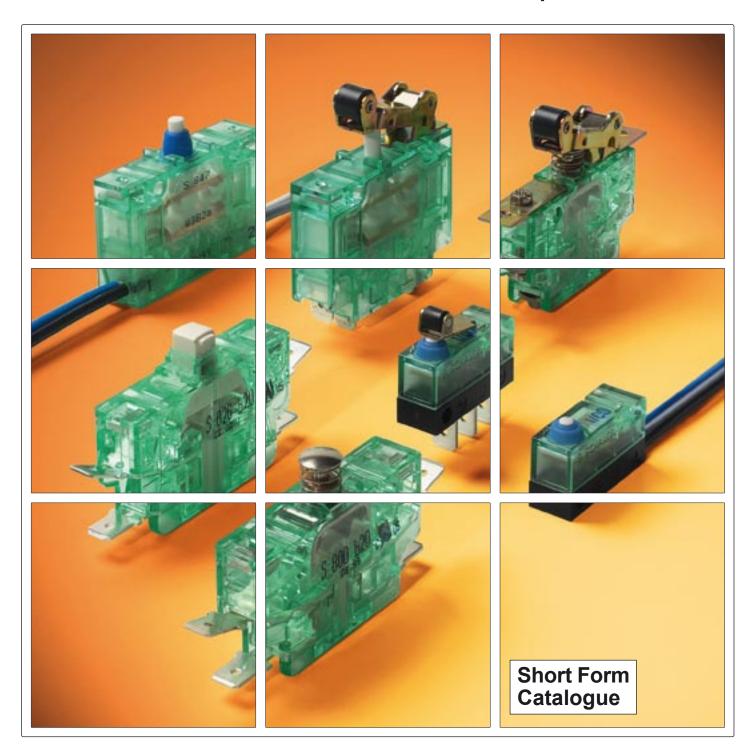
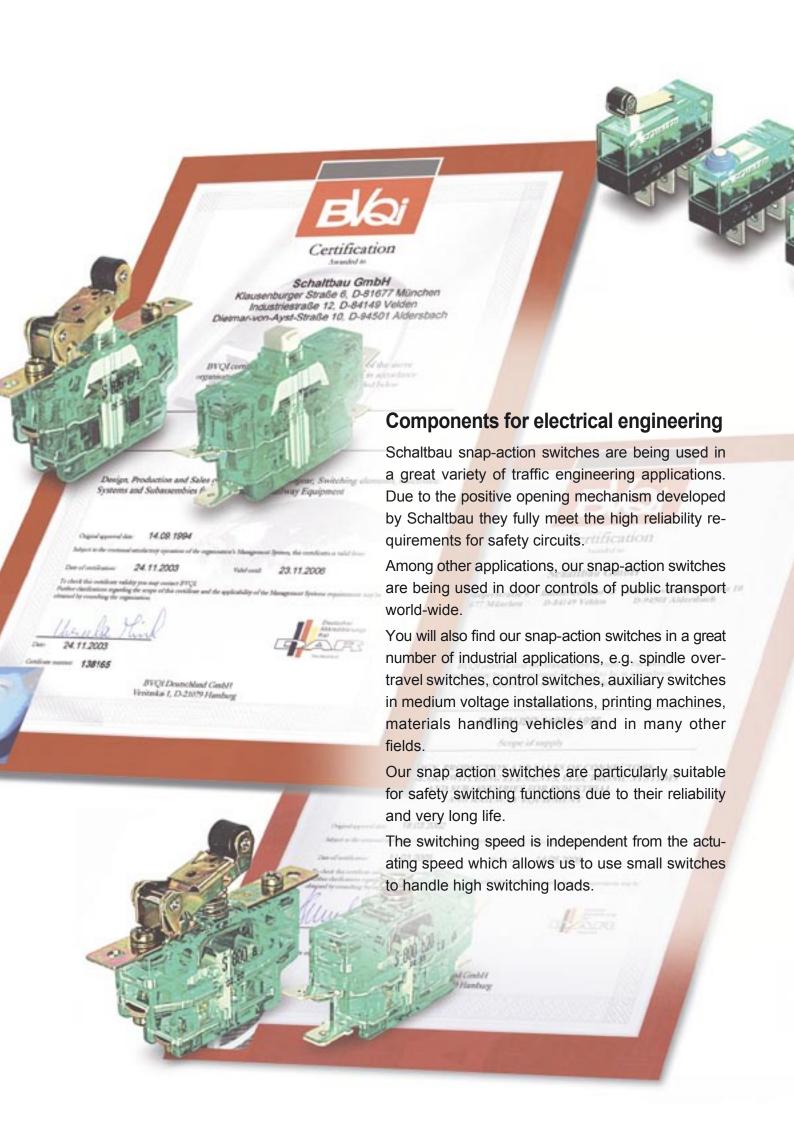


Snap-action Switches

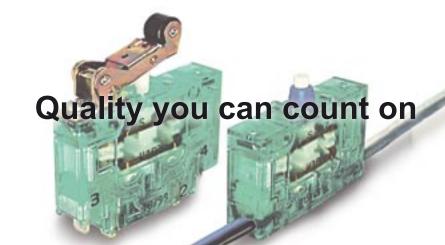






Ser	ries	S800	S820	S826	S834	S840	S847	S870	S880
Con	v. term. current I _{th}	10 A (16 A)	20 A	10 A	2,5 A	6 A (10 A)	10 A	10 A	6A
Deg	ree of protection	IP40	IP40	IP40	IP50	IP40	IP40/60/67	IP40/60/67	IP40/60/67
Med	chanical life (operations)	10 million	1 million	10 million	0.3 million	10 million	10 million	10 million	5 million
ms	NC	•				•		•	•
Contact systems	NO	•				•		•	•
ntact	NC / NO	•	•	•		•	•	•	•
Ö	DPDT		•	•	•		•		
S	Contact material	Ag / Au	Ag	Ag / Au	Ag	Ag / Au	Ag / Au	Ag / Au	Ag
Contacts	Positive opening operation	•	•	•	•	•	•	•	•
	Self-cleaning			•	•	•	•	•	•
nals	Flat tabs	•		•		•	•	•	•
	Screws	•	•	•		•	•	•	•
Terminals	Leads						•	•	•
	Solder pins / lugs				•	•		•	•
Actuators	Plunger	•	•	•	•	•	•	•	•
	Roller lever	•	•	•		•	•	•	•
	Flat lever					•		•	•
	Cam lever					•		•	•
Blov	wout device	•	•	•			•		
Pag	е	4	4	5	7	7	5	6	6







S800, S804, S814 Series



S800 Series snap-action switches

Catalogue D20e

S820 Series



S820 Series snap-action switches

Catalogue D20e

Features

- Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- ▶ Positive opening operation (except for S814)
- Type F in accordance with DIN 41636 (except for S804, S814)
- ▶ Degree of protection IP40
- High electrical load capacity due to large contact bridge
- Contact material: hard silver

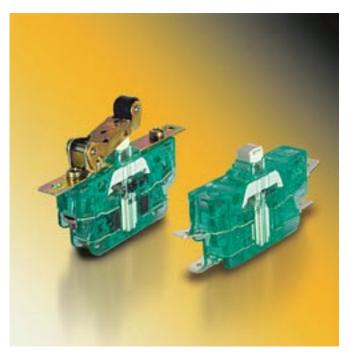
- Performance following standard
 VDE 0660 part 200 (IEC 60947-5-1)
- ▶ High vibration and shock resistance
- Positive opening operation
- Type F in accordance with DIN 41636
- High electrical load capacity due to large contact bridges
- Contact material: hard silver
- Form Z circuitry DPDT, galvanically isolated

Technical Data					
Series	S800	S804	S814		
Conv. therm. current I _{th}		10 A			
Utilization category		V AC / 3.0 A V DC / 1.0 A	230VAC/1.0A 60VDC/0.5A		
Impulse withst. voltage U _{imp}	4 kV	4 kV	2.5 kV		
Pollution degree	3	3	3		
Degree of protection	IP40	IP40	IP40		
Actuator force	3.3 N	3.3 N	3.2 N		
Actuator travel	3.2 mm	3.2 mm	2.0 mm		
Contact type		NO + NC			
Mechanical life	10 million operations				
Temperature range	-40°C +85°C				
Dimensions	50x28x12 mm	36x30x22 mm	36x31x22 mm		
Weight		20 40 g			

Technical Data				
Series	S820			
Conv. therm. current I _{th}	20 A			
Utilization category	AC 15 230 V AC / 3.0 A DC 13 110 V DC / 1.0 A			
Impulse withst. voltage U _{imp}	4 kV			
Pollution degree	3			
Degree of protection	IP40			
Actuator force	13 N max.			
Actuator travel	4 mm (without roller lever)			
Contact type	NO + NC			
Mechanical life	1.0 million operations			
Temperature range	-40°C +85°C			
Dimensions	50 x 45 x 12 mm			
Weight	40 50 g			



S826 Series



S826 Series snap-action switches

Catalogue D26e

S847 Series



S847 Series snap-action switches

Catalogue D47e

Features

- Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- Positive opening operation
- ➤ Type F in accordance with DIN 41636
- ▶ Degree of protection IP40
- Self-cleaning contacts, double contact points
- Form Z circuitry DPDT, galvanically isolated

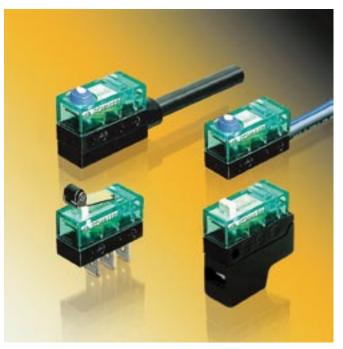
- ▶ Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- Positive opening operation
- ▶ Long overtravel after positive opening operation
- ► Type F in accordance with DIN 41636
- ▶ Degree of protection IP40, IP60, IP67
- Self-cleaning contacts, double contact points
- Form Z circuitry DPDT, galvanically isolated

Technical Data				
Series	S826			
Conv. therm. current I _{th}	10 A			
Utilization category	AC 15 230 V AC / 1.0 A DC 13 110 V DC / 0.5 A			
Impulse withst. voltage U _{imp}	4 kV			
Pollution degree	3			
Degree of protection	IP40			
Actuator force	3.6 N			
Actuator travel	3.2 mm			
Contact type	NO + NC			
Mechanical life	10 million operations			
Temperature range	-40°C +85°C			
Dimensions	50 x 28 x 12 mm			
Weight	20 40 g			

Technical Data					
Series	S847				
Conv. therm. current I _{th}		10 A			
Utilization category	AC 15 230 V AC / 1.5 A DC 13 110 V DC / 1.0 A				
Impulse withst. voltage U _{imp}	4 kV	4 kV	4 kV		
Pollution degree	3	3	3		
Degree of protection	IP40	IP60	IP67		
Actuator force	2.6 N	3 N	3 N		
Actuator travel	4.9 mm	4.9 mm	4.9 mm		
Contact type		NO + NC			
Mechanical life	10 million op.	5 million op.	5 million op.		
Temperature range	-40°C +85°C	-40°C +85°C	-20°C +85°C		
Dimensions	50 x 36 x 12 mm				
Weight		20 40 g			



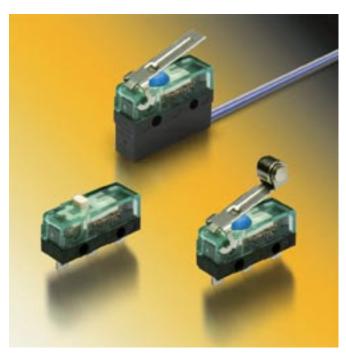
S870 Series



S870 Series snap-action switches

Catalogue D70e

S880 Series



S880 Series snap-action switches

Catalogue D80e

Features

- Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- Positive opening operation
- Type A in accordance with DIN 41636
- ▶ Degree of protection IP40, IP60, IP67
- Self-cleaning contacts
- High vibration and shock resistance

- V4 package snap-action switch with positive opening operation
- Many auxiliary actuator options
- Self-cleaning contacts
- ▶ High vibration and shock resistance

Technical Data				
Series	S870			
Conv. therm. current I _{th}		10 A		
Utilization category	AC 15 230 V AC / 1.5 A DC 13 110 V DC / 0.5 A			
Impulse withst. voltage U _{imp}	4 kV	4 kV	4 kV	
Pollution degree	3	3	3	
Degree of protection	IP40	IP60	IP67	
Actuator force	2.4 N	3 N	3 N	
Actuator travel	3.0 mm	3.0 mm	3.0 mm	
Contact type		NO + NC		
Mechanical life	10 million op.	5 million op.	5 million op.	
Temperature range	-40°C +85°C	-40°C +85°C	-20°C +85°C	
Dimensions	30 x 16 x 10.5 mm			
Weight	10 g			

Technical Data				
Series	S880			
Conv. therm. current I _{th}	6 A			
Utilization category	AC15 230 V AC / 1.5 A 			
Impulse withst. voltage U _{imp}	2.5 kV			
Pollution degree	3			
Degree of protection	IP40 / IP60 / IP67			
Actuator force	2.0 N			
Actuator travel	1.9 mm			
Contact type	NO + NC			
Mechanical life	5 million operations			
Temperature range	-40°C +85°C			
Dimensions	20 x 6.6 x 9.4 mm			
Weight	1.5 g			



S834 Series



S834 Series enabling switches

Catalogue D34e

S840 ... S846 Series



S840 Series snap-action switches

Features

- Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- ➤ Triple position switch OFF ON OFF
- Positive opening operation
- ► Long overtravel after positive opening operation
- ▶ Degree of protection IP50
- Self-cleaning contacts
- Contact material: hard silver

- ▶ Performance in accordance with standard VDE 0660 part 200 (IEC 60947-5-1)
- Positive opening operation
- Type A in accordance with DIN 41636
- ▶ Degree of protection IP40
- Self-cleaning contacts

Technical Data				
Series	S834			
Conv. therm. current I _{th}	2.5 A			
Utilization category	AC 15 230 V AC / 1.0 A DC 13 110 V DC / 0.3 A			
Impulse withst. voltage U _{imp}	1.5 kV			
Pollution degree	1			
Degree of protection	IP50			
Actuator force	3 5 N			
Actuator travel	6.0 mm			
Contact type	NO			
Mechanical life	300,000 operations			
Temperature range	0°C +55°C			
Dimensions	16.5 x 22.5 x 10.4 mm			
Weight	5 g			

Technical Data				
Series	S840	S845	S846	
Conv. therm. current I _{th}		6 A (10 A max.)		
Utilization category	AC 15 230 V AC / 1.5 A			
Impulse withst. voltage U _{imp}	2.5 kV	2.5 kV	2.5 kV	
Pollution degree	3	3	3	
Degree of protection	IP40	IP40	IP40	
Actuator force	2.4 N	2.4 N	2.4 N	
Actuator travel	2.5 mm	2.5 mm	2.5 mm	
Contact type	NC	NO	NO + NC	
Mechanical life	10 million operations			
Temperature range	-40°C +85°C			
Dimensions	30 x 16.5 x 10.3 mm			
Weight	9 15 g			



Electrical Components and Systems for Railway Engineering and Industrial Applications

Connectors



- Connectors manufactured to industry standards
- Connectors to suit the special requirements of communications engineering (MIL connectors)
- Charging connectors for battery-powered machines and systems
- Connectors for railway engineering, including UIC connectors
- Special connectors to suit customer requirements

Snap-action switches



- Snap-action switches with positive opening operation
- Snap-action switches with self-cleaning contacts
- Enabling switches
- Special switches to suit customer requirements

Contactors



- Single and multi-pole DC contactors
- High-voltage AC/DC contactors
- Contactors for battery powered vehicles and power supplies
- Contactors for railway applications
- Terminal bolts and fuse holders
- DC emergency stop switches
- Special contactors to suit customer requirements

Control devices



- Master controllers and reversers for railway applications
- Toggle switch devices
- Handles and foot switches for railway applications (dead-man equipment)
- Switching elements with high breaking capacity
- Emergency brake handles
- Signal devices

Transportation system equipment



- Power supplies for passenger coaches (electric equipment)
- Battery chargers for locomotives and passenger coaches
- High-voltage equipment for single and multi-phase operation
- Heating devices and heating controls
- Design and engineering services for high-voltage equipment
- Special equipment to suit customer requirements

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