



- Three-pole and three-pole +N load disconnect switch with isolating functions that complies with IEC/EN 60947-4
- Retrofittable: Pick-off terminal block, auxiliary contact, Ex i isolating element, N terminal, PE terminal, parallel drive, adaptor plate for connecting cable lugs
- Auxiliary contacts with lagging, leading or synchronised switching

E9

WebCode **8549A**



R. STAHL's 8549 series load and motor switches are used as Ex d load disconnect switches: They isolate and switch electric circuits in hazardous areas. They can also be used in non-hazardous areas. The innovative switch concept boasts simple, clear connections and an advanced contact system. A variety of terminals and contacts can be retrofitted.

	IEEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•


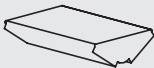
Selection Table					
Product Description	Load and motor switch Load disconnect switch				
Figure	Detailed number of poles	Ambient temperature	Product Type	Art. No.	Weight kg
	3 P	-50 °C ... +80 °C	8549/1-32	171181	4.500
		-30 °C ... +80 °C	8549/1-31	168775	4.500
	3 P + N	-50 °C ... +80 °C	8549/1-42	171183	5.900
		-30 °C ... +80 °C	8549/1-41	168777	6.250

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T5 Gb
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5 Gb
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), EAC (ENDCE), IECEx (PTB), USA (FM)
Electrical Data	
Rated operational voltage AC	690 V
Rated operational current	180 A
Short-circuit strength	50 kA
Tripping characteristic	gG
Auxiliary Power	
Max. power dissipation	10.8 W
Mechanical Data	
Degree of protection (IP)	IP20
Enclosure material	Polyamide / epoxy resin

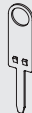

**Technical Data**

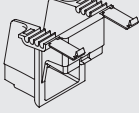

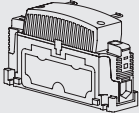
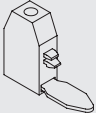
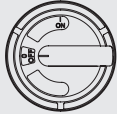

Mechanical Data	
Contact material	Silver stannic oxide
Connection terminal, stranded max.	150 mm <sup>2</sup>
Min. auxiliary contact connection terminals	1.5 mm <sup>2</sup>
Max. auxiliary connection connection terminals, solid	2.5 mm <sup>2</sup>
Max. auxiliary connection connection terminals, finely stranded	2.5 mm <sup>2</sup>
Connection cross-section	150 mm <sup>2</sup>
Connection cross section min.	6 mm <sup>2</sup>
Max. connection cross section, solid	150 mm <sup>2</sup>
Max. connection cross-section, finely stranded	150 mm <sup>2</sup>
Service life, min.	10 <sup>5</sup> operating cycles
Mounting / Installation	
Connection type	Screw terminal

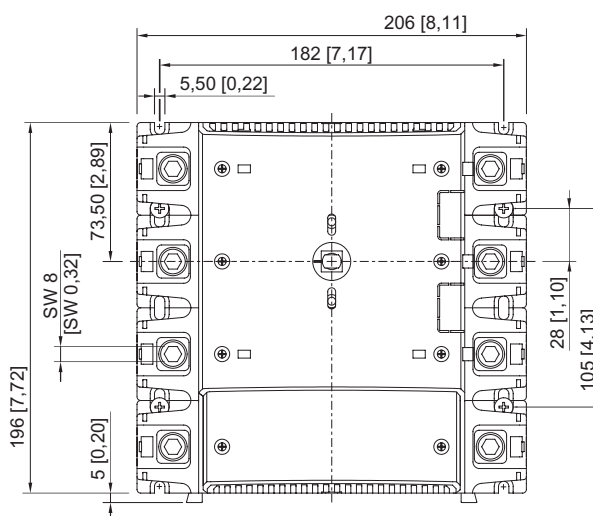
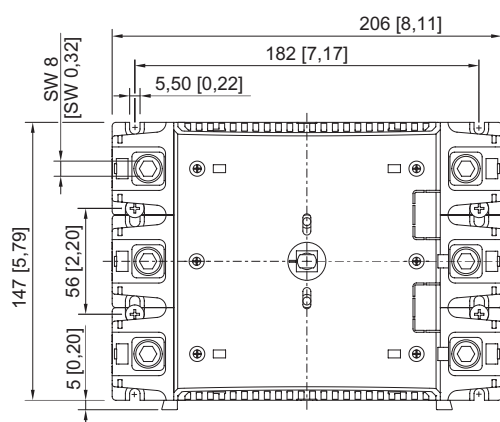
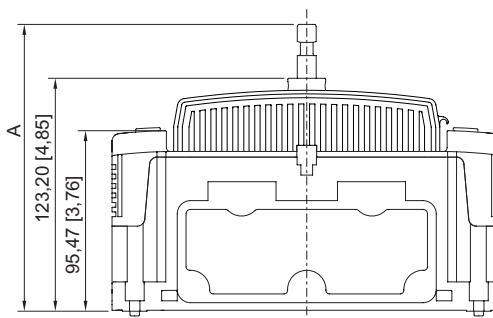
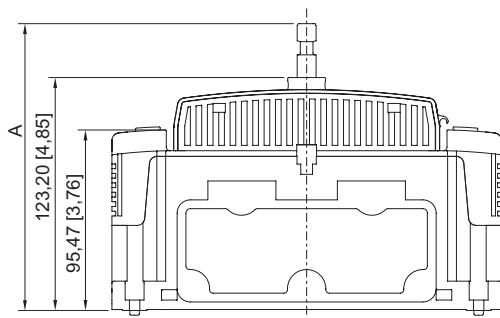
**Accessories**

Figure	Description	Art. No.	Weight kg
<b>Auxiliary contact</b>			
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168356	0.026
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: delayed (ON), leading (OFF) Right: synchronising	168351 ■	0.026
	2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353	0.026
<b>Insertion prism</b>			
	for connection of conductors with cross-sections ≤ 10 mm <sup>2</sup> (conductor connection) or ≤ 6 mm <sup>2</sup> (connection of several conductors) to the main terminals	171325	0.012

**Spare Parts**

Figure	Description	Art. No.	Weight kg
<b>Auxiliary contact key</b>			
	for removing the mounted auxiliary contact	201909	0.035
<b>Connection for cable lug</b>			
	Mounting kit for the connection of conductors with cable lug	171294	0.183

Spare Parts			
Figure	Description	Art. No.	Weight kg
<b>Ex i separation body</b>			
	to ensure the required distance of 50 mm between the connection points of intrinsically safe and non-intrinsically safe circuits	169683	0.008
<b>Parallel drive</b>			
	to actuate simultaneously 2 combined, 3 pole load and motor switches	171354	0.248
<b>PE/N terminal</b>			
	for subsequent assembly	168773	1.400
<b>Pick-off terminal block</b>			
	AGK 10-UKH 95	168771	0.030
<b>Rotary actuator</b>			
	Ø 180 mm Padlockable in 0 position using max. 3 padlocks Cover removable 0/OFF 8604C1-3-1-1-01-1-3 Handle: black Protective collar: black Designation label: 0/OFF - I/ON	207275	0.830
	Ø 180 mm Padlockable in 0 position using max. 3 padlocks Cover removable 0/OFF 8604C1-3-1-1-01-2-3 Handle: red Protective collar: yellow Designation label: 0/OFF - I/ON	207276	0.830
<b>Rotary actuator for safety switch</b>			
	Ø 180 mm Can be Padlocked in 0 position using max. 3 padlocks Cover can only be removed in I/ON position! 8604C1-3-2-1-01-1-3 Handle: black Protective collar: black Designation label: 0/OFF - I/ON	207277	0.830
	Ø 180 mm Can be Padlocked in 0 position using max. 3 padlocks Cover can only be removed in I/ON position! 8604C1-3-2-1-01-2-3 Handle: red Protective collar: yellow Designation label: 0/OFF - I/ON	207278	0.830



**8549/1-3, 3 pole**

Dim. A: 191.7 mm  
 Mounting kit: 8549A0307-1  
 Selector shaft: 87 mm  
 Installation in encl.: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

Dim. A: 151.7 mm  
 Mounting kit: 8549A0307-2  
 Selector shaft: 47 mm  
 Installation in encl.: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

**8549/1-4, 3 pole + N**

Dim. A: 191.7 mm  
 Mounting kit: 8549A0307-1  
 Selector shaft: 87 mm  
 Installation in encl.: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

Dim. A: 151.7 mm  
 Mounting kit: 8549A0307-2  
 Selector shaft: 47 mm  
 Installation in encl.: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150