



- 3-pole and 3-pole+N load disconnect switch with isolating characteristics according to IEC/EN 60947-4
- Retrofittable: Pick-off terminal block, auxiliary contacts, Ex i isolating element, N terminal, PE terminal, parallel drive, adaptor plate for connecting cable lugs
- Auxiliary contacts with delayed, leading or synchronising switching function

E9

## MY R. STAHL 8549A



R. STAHL Series 8549 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 a state-of-the-art contact system. A variety of terminals and contacts can be retrofitted.

	IECEx / 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	
	3 P	-50 °C ... +80 °C	8549/1-32	171181	4.5 kg	
		-30 °C ... +80 °C	8549/1-31	168775	4.5 kg	
	3 P + N	-50 °C ... +80 °C	8549/1-42	171183	5.9 kg	
		-30 °C ... +80 °C	8549/1-41	168777	6.25 kg	

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), 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
Contact material	Silver stannic oxide



**Technical Data**
**Mechanical Data**

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

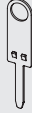

**Mounting / Installation**

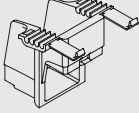

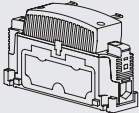
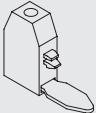
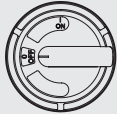

Connection type	Screw terminal
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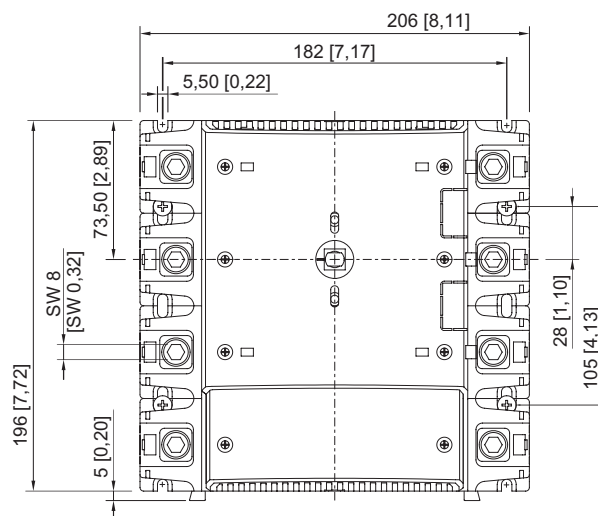
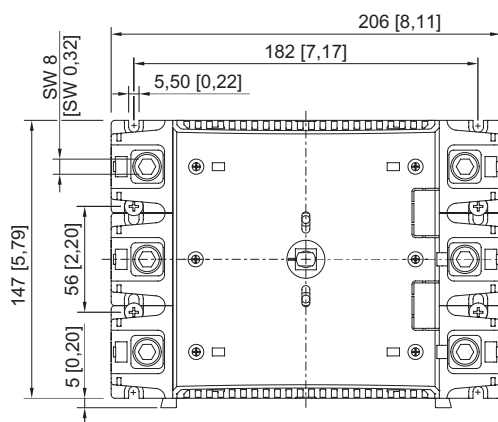
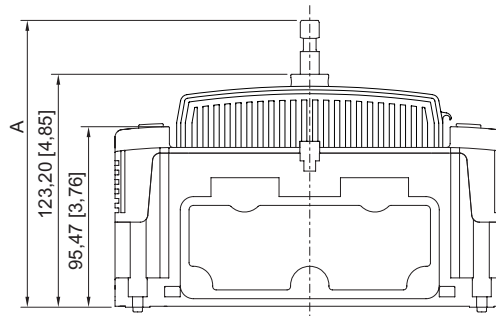
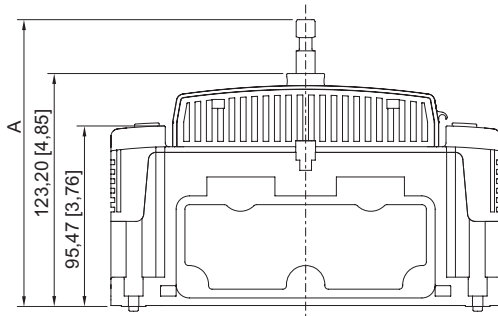
**Accessories**

Figure	Description	Art. No.	Weight
<b>Auxiliary contact</b>			
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 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	26 g
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 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	26 g
	2 NO (8080/1-4) 250 V AC/DC Max. 6 A 1.5 to 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	26 g
<b>Insertion prism</b>			
	for connecting conductors with cross-sections ≤ 10 mm <sup>2</sup> (single conductor connection) or ≤ 6 mm <sup>2</sup> (multiple conductor connection) at the main terminals	171325	12 g

**Spare Parts**

Figure	Description	Art. No.	Weight
<b>Auxiliary contact key</b>			
	For removing installed auxiliary contacts	201909	35 g
<b>Connection for cable lug</b>			
	Assembly kit for connecting conductors with cable lug	171294	183 g

Spare Parts			
Figure	Description	Art. No.	Weight
<b>Ex i isolating element</b>			
	for ensuring the required 50 mm tight string length between the connection points of intrinsically safe and non-intrinsically safe circuits	169683	8 g
<b>Parallel drive</b>			
	for actuating two combined, 3-pole load and motor switches at the same time	171354	248 g
<b>PE/N terminal</b>			
	for retrofitting	168773	1.4 kg
<b>Pick-off terminal block</b>			
	Pick-off terminal block 10-UKH 95	168771	30 g
<b>Rotary actuator</b>			
	Dia. 180 mm Lockable in 0-position with max. three padlocks Cover removable at 0/OFF 8604C1-3-1-1-01-1-3 Handle: Black Protective collar: Black Designation plate: 0/OFF – I/ON	207275	830 g
	Dia. 180 mm Lockable in 0-position with max. three padlocks Cover removable at 0/OFF 8604C1-3-1-1-01-2-3 Handle: Red Protective collar: Yellow Designation plate: 0/OFF – I/ON	207276	830 g
<b>Rotary actuator for safety switch</b>			
	Dia. 180 mm Lockable in 0-position with max. three padlocks Cover can only be removed in I/ON position. 8604C1-3-2-1-01-1-3 Handle: Black Protective collar: Black Designation plate: 0/OFF – I/ON	207277	830 g
	Dia. 180 mm Lockable in 0-position with max. three padlocks Cover can only be removed in I/ON position. 8604C1-3-2-1-01-2-3 Handle: Red Protective collar: Yellow Designation plate: 0/OFF – I/ON	207278	830 g



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

Dimension A: 191.7 mm  
 Assembly kit: 8549A0307-1  
 Selector shaft: 87 mm  
 Installation in enclosure: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

Dimension A: 151.7 mm  
 Assembly kit: 8549A0307-2  
 Selector shaft: 47 mm  
 Installation in enclosure: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

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

Dimension A: 191.7 mm  
 Assembly kit: 8549A0307-1  
 Selector shaft: 87 mm  
 Installation in enclosure: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150

Dimension A: 151.7 mm  
 Assembly kit: 8549A0307-2  
 Selector shaft: 47 mm  
 Installation in enclosure: 8146/...5 and 8146/...3 and 8150/.....-190 8150/.....-150