

8549/1-41 Art. No. 168777



- 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

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.

### Technical Data

#### Explosion Protection

Application range (zones)	1, 2, 21, 22
IECEx gas explosion protection	Ex db eb IIC T5 Gb
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T5 Gb
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), USA (FM)

#### Electrical Data

AC rated operational voltage	690 V
Rated operational current	180 A
No. of poles	3
Short-circuit strength	50 kA
Max. short-circuit protection	200 A
N-pole present	Yes
Tripping characteristic	gG

#### Auxiliary Power

Max. power dissipation	10.8 W
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#### Ambient Conditions

Ambient temperature	-30 °C ... +80 °C
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#### Mechanical Data

Degree of protection (IP)	IP20
Enclosure material	Polyamide / epoxy resin
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, 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>

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**Mechanical Data**

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>6</sup> operating cycles
Detailed number of poles	3 P + N
Weight	6.22 kg
Weight	13.71 lb

**Mounting / Installation**

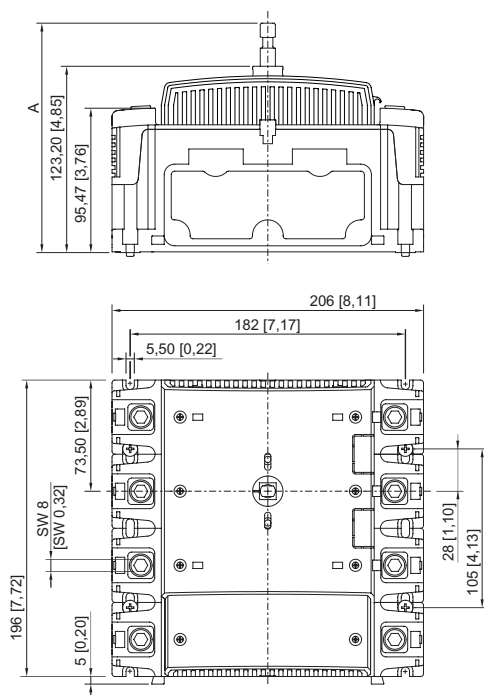
Connection type	Screw terminal
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**Technical Drawings – Subject to Alterations**



8544/1-4 and 8549/1-4, 3-pole + N  
main contacts

**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**



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

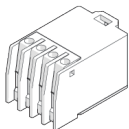
Dimension A: 191.7 mm  
 Assembly kit: 8549A0307-1  
 Selector shaft: 87 mm  
 Installation in enclosure: 8146/...5 and  
 8146/...3 and  
 8150/.....-190  
 8150/.....-150

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

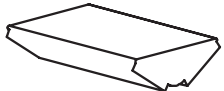
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## Accessories

### Auxiliary contact

		Art. No.
	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
	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
	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

### Insertion prism

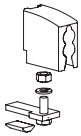
		Art. No.
	for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals	171325

## Spare Parts

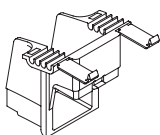
### Auxiliary contact key

		Art. No.
	For removing installed auxiliary contacts	201909

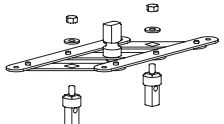
### Connection for cable lug

		Art. No.
	Assembly kit for connecting conductors with cable lug	171294

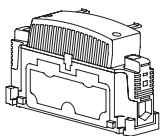
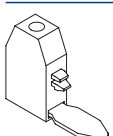
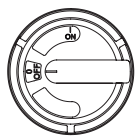

### Ex i isolating element

		Art. No.
	for ensuring the required 50 mm tight string length between the connection points of intrinsically safe and non-intrinsically safe circuits	169683

### Parallel drive

		Art. No.
	for actuating two combined, 3-pole load and motor switches at the same time	171354

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<b>PE/N terminal</b>		<b>Art. No.</b>
	for retrofitting	168773
<b>Pick-off terminal block</b>		<b>Art. No.</b>
	Pick-off terminal block 10-UKH 95	168771
<b>Rotary actuator</b>		<b>Art. No.</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
	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
<b>Rotary actuator for safety switch</b>		<b>Art. No.</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
	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

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.