

8549/1-41 Art. No. 168777



- 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

MY R. STAHL 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.

### Technical Data

#### Explosion Protection

Application range (zones)	1 2 21 22
IECEX gas certificate	IECEX PTB 10.0053 U
IECEX gas explosion protection	Ex db eb IIC T5 Gb
ATEX gas certificate	PTB 10 ATEX 1032 U
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

Rated operational voltage AC	690 V
Rated operational current	180 A
Short-circuit strength	50 kA
Short-circuit protection, max.	200 A
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>

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### Mechanical Data

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
Detailed number of poles	3 P + N
Weight	6.25 kg
Weight	13.78 lb

### Mounting / Installation

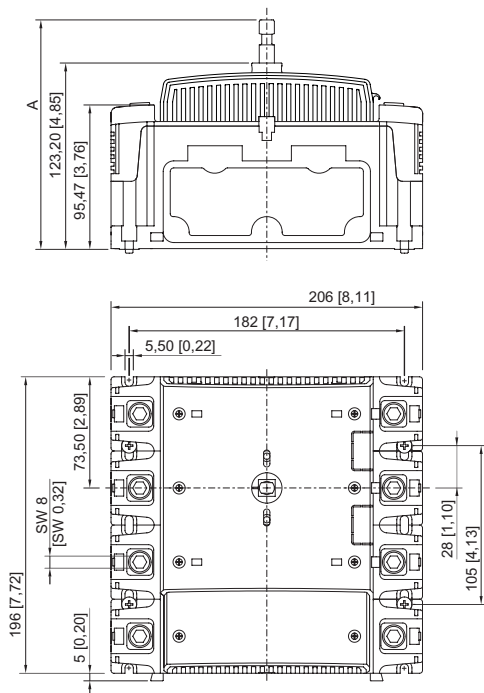
Connection type	Screw terminal
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### Technical Drawings – Subject to Alterations



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 + 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

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## Accessories

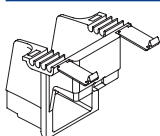
Auxiliary contact		Art. No.
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm <sup>2</sup> , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168356
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm <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

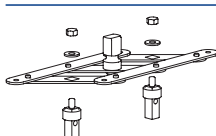
Insertion prism		Art. No.
	for connection of conductors with cross-sections $\leq 10 \text{ mm}^2$ (conductor connection) or $\leq 6 \text{ mm}^2$ (connection of several conductors) to the main terminals	171325

## Spare Parts

Auxiliary contact key		Art. No.
	For removing installed auxiliary contacts	201909

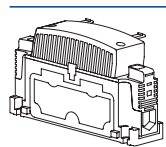
Connection for cable lug		Art. No.
	Mounting kit for the connection of conductors with cable lug	171294

Ex i separation body		Art. No.
	to ensure the required distance of 50 mm between the connection points of intrinsically safe and non-intrinsically safe circuits	169683

Parallel drive		Art. No.
	to actuate simultaneously 2 combined, 3 pole load and motor switches	171354

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### PE/N terminal

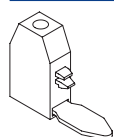


for subsequent assembly

Art. No.

168773

### Pick-off terminal block

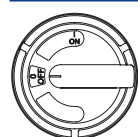


AGK 10-UKH 95

Art. No.

168771

### Rotary actuator



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

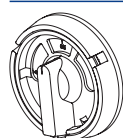
Art. No.

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

### Rotary actuator for safety switch



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

Art. No.

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

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