

8549/1-42 Art. No. 171183



- 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 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
Max. short-circuit protection	200 A
Tripping characteristic	gG

Auxiliary Power

Max. power dissipation	10.8 W
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Ambient Conditions

Ambient temperature	-50 °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 ²
Min. auxiliary contact connection terminals	1,5 mm ²
Max. auxiliary connection connection terminals, finely stranded	2,5 mm ²
Connection cross-section	150 mm ²
Connection cross section min.	6 mm ²

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Mechanical Data

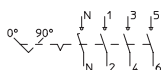
Max. connection cross section, solid	150 mm ²
Max. connection cross-section, finely stranded	150 mm ²
Service life, min.	10 ⁶ operating cycles
Detailed number of poles	3 P + N
Weight	13.01 lb

Mounting / Installation

Connection type	Screw terminal
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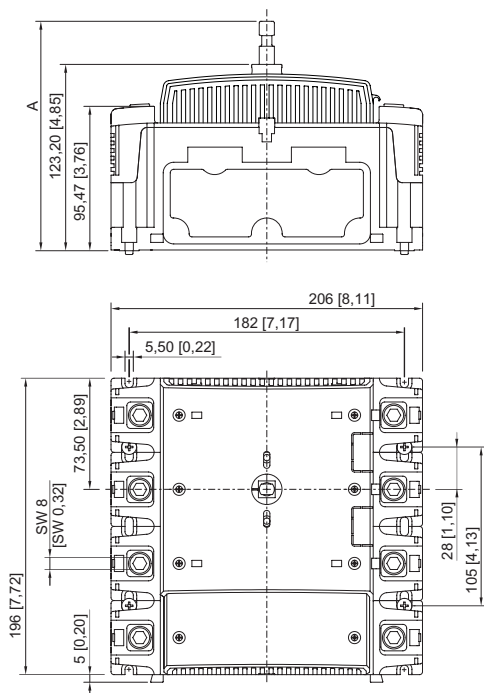
Technical Drawings – Subject to Alterations

	N	1	3	5
0°	X	X	X	X
90°	X	X	X	X
	N	2	4	6



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 and 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 and 8150/.....-150

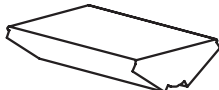
Accessories

Auxiliary contact

Art. No.

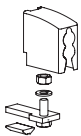
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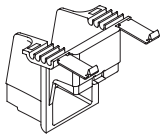
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168356
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function 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 ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168353

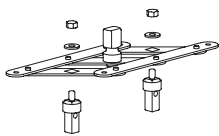
Insertion prism		Art. No.
	for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals	171325

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

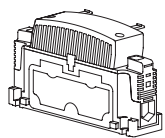
Ex i isolating element		Art. No.
	for ensuring the required 50 mm tight string length between the connection points of intrinsically safe and non-intrinsically safe circuits	169683

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

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PE/N terminal

Art. No.

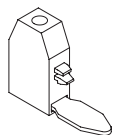


for retrofitting

168773

Pick-off terminal block

Art. No.

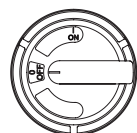


Pick-off terminal block 10-UKH 95

168771

Rotary actuator

Art. No.



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

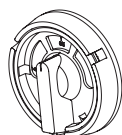
207275

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

Rotary actuator for safety switch

Art. No.



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.