

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 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	-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	6.2 kg
Weight	13.67 lb

Mounting / Installation

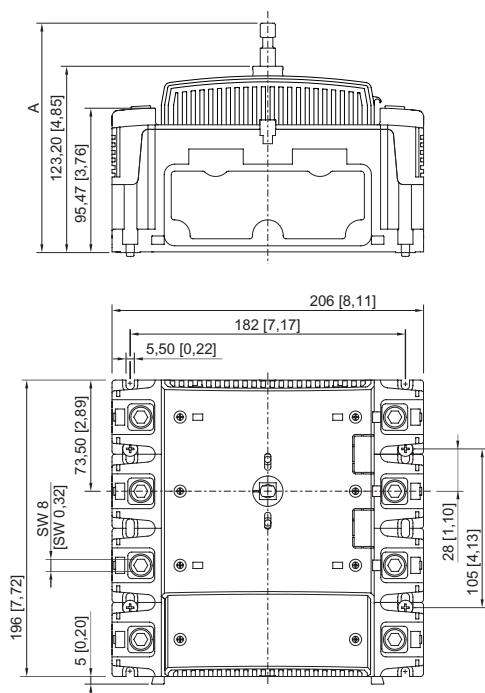
Connection type	Screw terminal
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Technical Drawings – Subject to Alterations



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

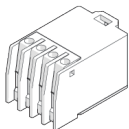
Dimension A: 191.7 mm
 Assembly kit: 8549A0307-1
 Selector shaft: 87 mm
 Installation in enclosure: 8146/...5 and
 8146/...3 and
 8150/.....-190
 8150/.....-150

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

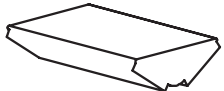
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Accessories

Auxiliary contact

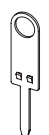
		Art. No.
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168356
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching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

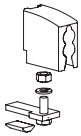
		Art. No.
	for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals	171325

Spare Parts

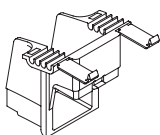
Auxiliary contact key

		Art. No.
	For removing installed auxiliary contacts	201909

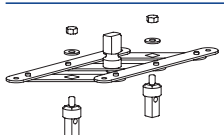
Connection for cable lug

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

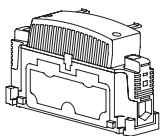
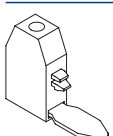
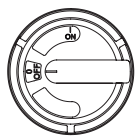

Ex i isolating element

		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

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