

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 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 certificate	PTB 10 ATEX 1032 U
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
Max. short-circuit protection	200 A
N-pole present	Yes
Tripping characteristic	gG
No. of poles	3

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 ²
Min. auxiliary contact connection terminals	1,5 mm ²

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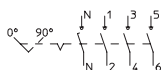
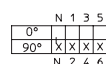
Mechanical Data

Max. auxiliary connection connection terminals, finely stranded	2,5 mm ²
Connection cross-section	150 mm ²
Connection cross section min.	6 mm ²
Max. connection cross section, solid	150 mm ²
Max. connection cross-section, finely stranded	150 mm ²
Service life, min.	10 ⁵ 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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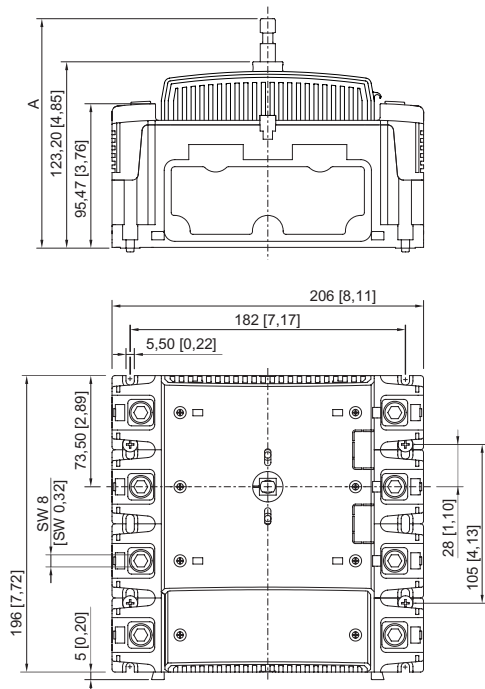
Technical Drawings – Subject to Alterations



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

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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


Accessories

Auxiliary contact

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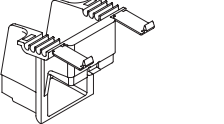
	<p>2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm², solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising</p>	168356
	<p>1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm², solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: Delayed (ON), leading (OFF) Right: Synchronising</p>	168351
	<p>2 NO (8080/1-4) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm², solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising</p>	168353

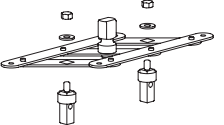
Insertion prism	Art. No.	
	<p>for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals</p>	171325

Spare Parts

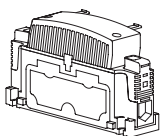
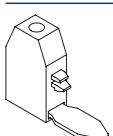
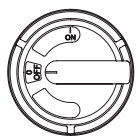

Auxiliary contact key	Art. No.	
	<p>For removing installed auxiliary contacts</p>	201909

Connection for cable lug	Art. No.	
	<p>Assembly kit for connecting conductors with cable lug</p>	171294

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

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