

8549/1-31 Art. No. 168775



- 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

WebCode 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
NEC 500 zones	Class I, Zone 1
NEC 505 zones	Class I, Division 2
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 ²

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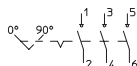
Mechanical Data

Max. auxiliary connection connection terminals, solid	2.5 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
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
Weight	4.5 kg
Weight	9.92 lb

Mounting / Installation

Connection type	Screw terminal
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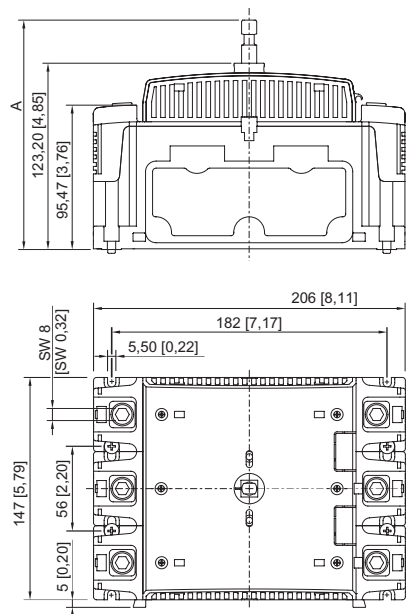
Technical Drawings – Subject to Alterations



8544/1-3 and 8549/1-3, 3 pole main contacts

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



8549/1-3, 3 pole

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

Accessories

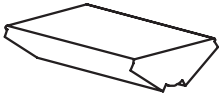
Auxiliary contact




2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 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 contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 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 contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 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


Art. No.

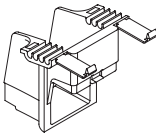
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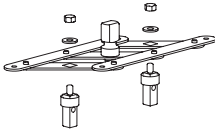
Insertion prism		Art. No.
	for connection of conductors with cross-sections $\leq 10 \text{ mm}^2$ (conductor connection) or $\leq 6 \text{ mm}^2$ (connection of several conductors) to the main terminals	171325

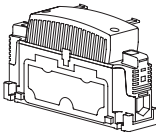
Spare Parts

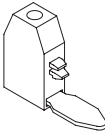
Auxiliary contact key		Art. No.
	for removing the mounted auxiliary contact	201909

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

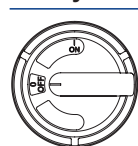
PE/N terminal		Art. No.
	for subsequent assembly	168773

Pick-off terminal block		Art. No.
	AGK 10-UKH 95	168771

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Rotary actuator

Art. No.

	<p>Ø 180 mm Padlockable in 0 position using max. 3 padlocks Cover removable 0/OFF 8604C1-3-1-1-01-1-3 Handle: black Protective collar: black Designation label: 0/OFF - I/ON</p>	<p>207275</p>
	<p>Ø 180 mm Padlockable in 0 position using max. 3 padlocks Cover removable 0/OFF 8604C1-3-1-1-01-2-3 Handle: red Protective collar: yellow Designation label: 0/OFF - I/ON</p>	<p>207276</p>

Rotary actuator for safety switch

Art. No.

	<p>Ø 180 mm Can be Padlocked in 0 position using max. 3 padlocks Cover can only be removed in I/ON position! 8604C1-3-2-1-01-1-3 Handle: black Protective collar: black Designation label: 0/OFF - I/ON</p>	<p>207277</p>
	<p>Ø 180 mm Can be Padlocked in 0 position using max. 3 padlocks Cover can only be removed in I/ON position! 8604C1-3-2-1-01-2-3 Handle: red Protective collar: yellow Designation label: 0/OFF - I/ON</p>	<p>207278</p>

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