

8544/1-32 Art. No. 171154



- 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 8544A



R. STAHL Series 8544 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 09.0011 U
IECEX gas explosion protection	Ex db eb IIC T6
ATEX gas certificate	PTB 08 ATEX 1060 U
ATEX gas certificate	PTB 08 ATEX 1060 U
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEX (PTB), USA (FM)

#### Electrical Data

Rated operational voltage AC	690 V
Rated operational current	80 A
Short-circuit strength	20 kA
Max. short-circuit protection	160 A
Tripping characteristic	gG
No. of poles	3

#### Auxiliary Power

Max. power dissipation	3.8 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.	50 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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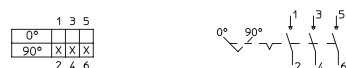
**Mechanical Data**

Connection cross-section	50 mm <sup>2</sup>
Connection cross section min.	6 mm <sup>2</sup>
Max. connection cross section, solid	10 mm <sup>2</sup>
Max. connection cross-section, finely stranded	50 mm <sup>2</sup>
Service life, min.	10 <sup>4</sup> operating cycles
Detailed number of poles	3 P
Weight	2.2 kg
Weight	4.85 lb

**Mounting / Installation**

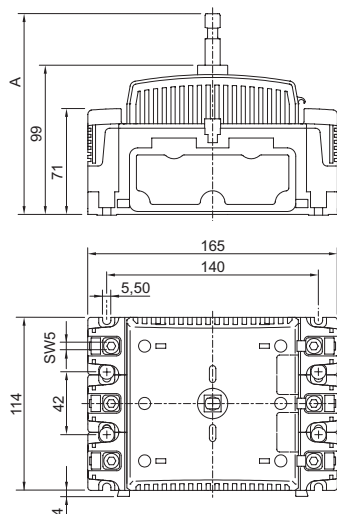
Connection type	Screw terminal
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**Technical Drawings – Subject to Alterations**



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

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



**8544/1-3, 3-pole**  
 Dimension A: 191.7 mm  
 Assembly kit: 8544A0303-3  
 Selector shaft: 111 mm  
 Installation in enclosure: 8146/...5 and 8150/.....-190

Dimension A: 151.7 mm  
 Assembly kit: 8544A0303-2  
 Selector shaft: 71 mm  
 Installation in enclosure: 8146/...3 and 8150/.....-150


Dimension A: 132.7 mm  
 Assembly kit: 8544A0303-1  
 Selector shaft: 52 mm  
 Installation in enclosure: 8146/...2

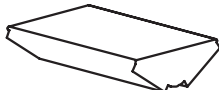
**Accessories**

**Auxiliary contact**

**Art. No.**

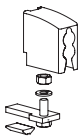
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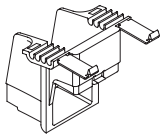
	2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm <sup>2</sup> , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising	168356
	1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm <sup>2</sup> , solid/finely stranded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

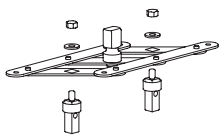
Insertion prism		Art. No.
	for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals	171324

## Spare Parts

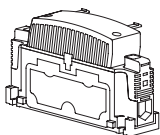
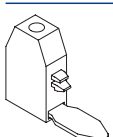



Auxiliary contact key		Art. No.
	For removing installed auxiliary contacts	201909

Connection for cable lug		Art. No.
	Assembly kit for connecting conductors with cable lug	171292

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 load and motor switches at the same time	171330

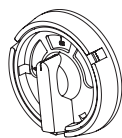
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<b>PE/N terminal</b>		<b>Art. No.</b>
	for retrofitting	168347
<b>Pick-off terminal block</b>		<b>Art. No.</b>
	Pick-off terminal block 10-UKH 50	168543
<b>Rotary actuator</b>		<b>Art. No.</b>
	Dia. 122.5; lockable in 0-position with max. three padlocks 8604C1-2-1-1-01-1-2 Handle: Black Protective collar: Black Designation plate: 0/OFF – I/ON	201436
	Dia. 122.5; lockable in 0-position with max. three padlocks 8604C1-2-1-1-01-2-2 Handle: Red Protective collar: Yellow Designation plate: 0/OFF – I/ON	201437
	Dia. 122.5; lockable in 0-position with max. three padlocks 8604C1-2-1-1-01-3-2 Handle: Red Protective collar: Black Designation plate: 0/OFF – I/ON	201438
<b>Rotary actuator for 6-pole safety switch</b>		<b>Art. No.</b>
	Dia. 180 mm; lockable in 0-position with max. three padlocks Cover can only be removed in I/ON position. 8604C1-3-2-1-01-1-1 Handle: Black Protective collar: Black Designation plate: 0/OFF – I/ON	201459
<b>Rotary actuator for 6-pole switch</b>		<b>Art. No.</b>
	Dia. 180; lockable in 0-position with max. three padlocks 8604C1-3-1-1-01-1-1 Handle: Black Protective collar: Black Designation plate: 0/OFF – I/ON	201454
	Dia. 180; lockable in 0-position with max. three padlocks 8604C1-3-1-1-01-3-1 Handle: Red Protective collar: Black Designation plate: 0/OFF – I/ON	201457

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**Rotary actuator for safety switch**

**Art. No.**



Dia. 122.5; lockable in 0-position with max. three padlocks  
Cover can only be removed in I/ON position.  
8604C1-2-2-1-01-1-2  
Handle: Black  
Protective collar: Black  
Designation plate: 0/OFF – I/ON

201439

Dia. 122.5; lockable in 0-position with max. three padlocks  
Cover can only be removed in I/ON position.  
8604C1-2-2-1-01-2-2  
Handle: Red  
Protective collar: Yellow  
Designation plate: 0/OFF – I/ON

201451

**Selector shaft**

**Art. No.**



52 mm for 8146/...2

168354

71 mm for 8146/...3 or 8150/-.....-150

168355

111 mm for 8146/...5 or 8150/-.....-190

168357

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.