

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 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 |
| Short-circuit protection, max. | 160 A |
| Tripping characteristic | gG |

Auxiliary Power

| | |
|------------------------|-------|
| Max. power dissipation | 3.8 W |
|------------------------|-------|

Ambient Conditions

| | |
|---------------------|-------------------|
| Ambient temperature | -50 °C ... +80 °C |
|---------------------|-------------------|

Mechanical Data

| | |
|---|-------------------------|
| Degree of protection (IP) | IP20 |
| Enclosure material | Polyamide / epoxy resin |
| Contact material | Silver stannic oxide |
| Connection terminal, stranded max. | 50 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 | 50 mm ² |
| Connection cross section min. | 6 mm ² |

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Mechanical Data

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

Mounting / Installation

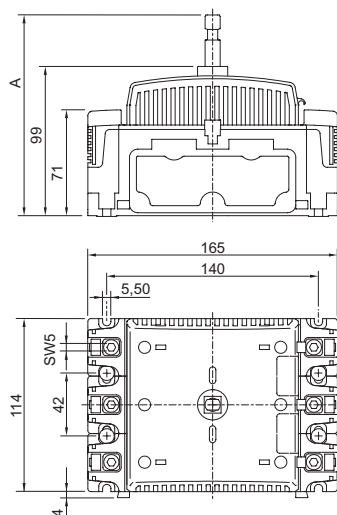
| | |
|-----------------|----------------|
| Connection type | Screw terminal |
|-----------------|----------------|

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

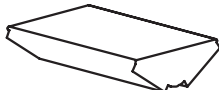
Accessories

Auxiliary contact

Art. No.

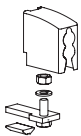
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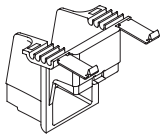
| | | |
|--|--|--------|
|  | 2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising | 168356 |
| | 1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² ,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

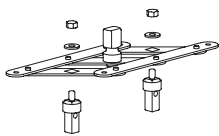
| Insertion prism | | Art. No. |
|---|---|----------|
|  | for connecting conductors with cross-sections $\leq 10 \text{ mm}^2$ (single conductor connection) or $\leq 6 \text{ mm}^2$ (multiple conductor connection) at the main terminals | 171324 |

Spare Parts

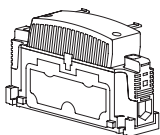
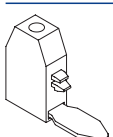



| Auxiliary contact key | | Art. No. |
|--|---|----------|
|  | For removing installed auxiliary contacts | 201909 |

| 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 |

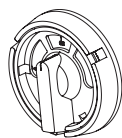
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| PE/N terminal | | Art. No. |
|--|--|-----------------|
|  | for retrofitting | 168347 |
| Pick-off terminal block | | Art. No. |
|  | Pick-off terminal block 10-UKH 50 | 168543 |
| Rotary actuator | | Art. No. |
|  | Dia. 122.5; lockable in 0-position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