

8544/1-41 Art. No. 167240



- 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
Max. short-circuit protection	160 A
N-pole present	Yes
Tripping characteristic	gG
No. of poles	3

Auxiliary Power

Max. power dissipation	3.8 W
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Ambient Conditions

Ambient temperature	-30 °C ... +80 °C
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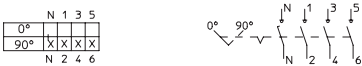
Mechanical Data

Degree of protection (IP)	IP20
Enclosure material	Polyamide / epoxy resin
Contact material	Silver stannic oxide
Connection terminal, stranded max.	50 mm ²
Min. auxiliary contact connection terminals	1,5 mm ²
Max. auxiliary connection connection terminals, finely stranded	2,5 mm ²

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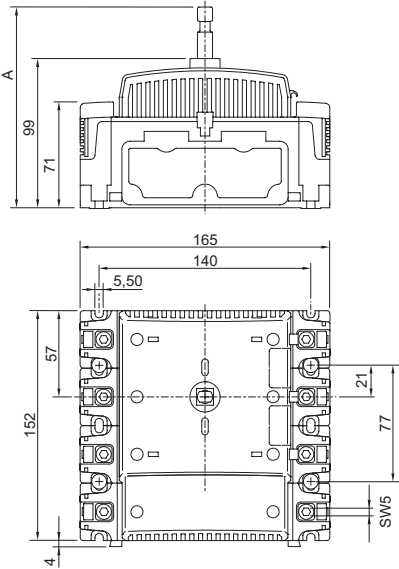
Mechanical Data	
Connection cross-section	50 mm²
Connection cross section min.	6 mm²
Max. connection cross section, solid	10 mm²
Max. connection cross-section, finely stranded	50 mm²
Service life, min.	10 ⁴ operating cycles
Detailed number of poles	3 P + N
Weight	2.8 kg
Weight	6.17 lb
Mounting / Installation	
Connection type	Screw terminal

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



8544/1-4, 3-pole + N	
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

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Auxiliary contact

Art. No.



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

168356

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

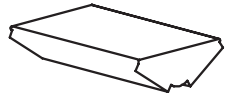
168351

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

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.

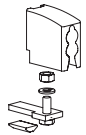


For removing installed auxiliary contacts

201909

Connection for cable lug

Art. No.

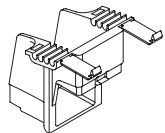


Assembly kit for connecting conductors with cable lug

171292

Ex i isolating element

Art. No.

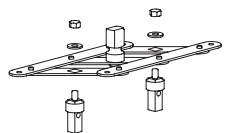


for ensuring the required 50 mm tight string length between the connection points of intrinsically safe and non-intrinsically safe circuits

169683

Parallel drive

Art. No.



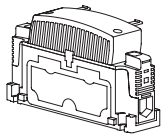
for actuating two combined load and motor switches at the same time

171330

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PE/N terminal

Art. No.

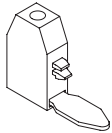


for retrofitting

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

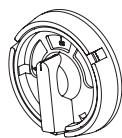
Dia. 180; lockable in 0-position with max. three padlocks
8604C1-3-1-1-01-3-1
Handle: Red
Protective collar: Black
Designation plate: 0/OFF – I/ON

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.