

8544/1-31 Art. No. 165675



- 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

MY R. STAHL 8544A



R. STAHL's 8544 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 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
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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

8544/1-31 Art. No. 165675

Mechanical Data

Connection cross-section	50 mm ²
Connection cross section min.	6 mm ²
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

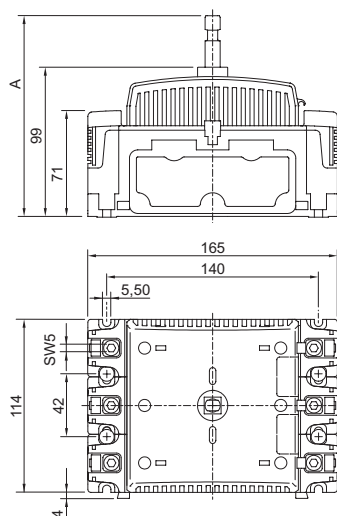
Connection type	Screw terminal
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Technical Drawings – Subject to Alterations



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

Dim. A: 191.7 mm
 Mounting kit: 8544A0303-3
 Selector shaft: 111 mm
 Installation in encl.: 8146/...5 and 8150/.....-190

Dim. A: 151.7 mm
 Mounting kit: 8544A0303-2
 Selector shaft: 71 mm
 Installation in encl.: 8146/...3 and 8150/.....-150


Dim. A: 132.7 mm
 Mounting kit: 8544A0303-1
 Selector shaft: 52 mm
 Installation in encl.: 8146/...2

Accessories

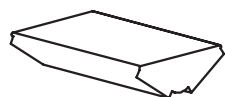
Auxiliary contact

Art. No.

8544/1-31 Art. No. 165675

	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



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

Art. No.

171324

Spare Parts

Auxiliary contact key

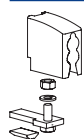


For removing installed auxiliary contacts

Art. No.

201909

Connection for cable lug

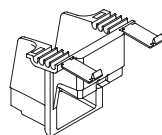


Mounting kit for the connection of conductors with cable lug

Art. No.

171292

Ex i separation body

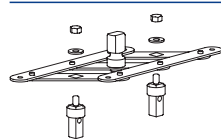


to ensure the required distance of 50 mm between the connection points of intrinsically safe and non-intrinsically safe circuits

Art. No.

169683

Parallel drive



to actuate simultaneously 2 combined load and motor switches

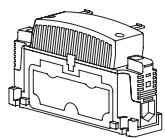
Art. No.

171330

8544/1-31 Art. No. 165675

PE/N terminal

Art. No.

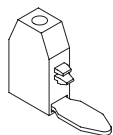


for subsequent assembly

168347

Pick-off terminal block

Art. No.

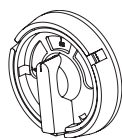


AGK 10-UKH 50

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

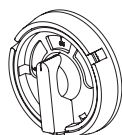
201437

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.

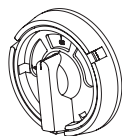


Dia. 180 mm; lockable in 0-position with max. three padlocks
Cover can only be removed in I/ON position.
8604C1-3-2-1-01-1-1
Handle: Black
Protective collar: Black
Designation plate: 0/OFF – I/ON

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

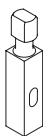
201457

8544/1-31 Art. No. 165675

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.