



- 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.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Product Description		Load and motor switch Load disconnect switch				
Figure	Detailed number of poles	Ambient temperature	Product Type	Art. No.	Weight	
	3 P	-50 °C ... +80 °C	8544/1-32	171154	2.2 kg	
		-30 °C ... +80 °C	8544/1-31	165675	2.2 kg	
	3 P + N	-50 °C ... +80 °C	8544/1-42	171156	2.8 kg	
		-30 °C ... +80 °C	8544/1-41	167240	2.8 kg	

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T6
ATEX gas explosion protection	⊕ 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
Tripping characteristic	gG
Auxiliary Power	
Max. power dissipation	3.8 W
Mechanical Data	
Degree of protection (IP)	IP20
Enclosure material	Polyamide / epoxy resin
Contact material	Silver stannic oxide



Technical Data
Mechanical Data

Connection terminal, stranded max.	50 mm ²
Min. auxiliary contact connection terminals	1,5 mm ²
Max. auxiliary connection connection terminals, solid	2.5 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
Max. connection cross section, solid	10 mm ²
Max. connection cross-section, finely stranded	50 mm ²
Service life, min.	10 ⁴ operating cycles

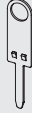

Mounting / Installation

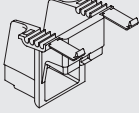

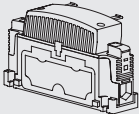
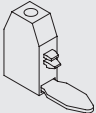



Connection type	Screw terminal
-----------------	----------------

Accessories



Figure	Description	Art. No.	Weight
Auxiliary contact			
	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	26 g
	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	26 g
	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	26 g
Insertion prism			
	for connecting conductors with cross-sections ≤ 10 mm ² (single conductor connection) or ≤ 6 mm ² (multiple conductor connection) at the main terminals	171324	12 g

Spare Parts

Figure	Description	Art. No.	Weight
Auxiliary contact key			
	For removing installed auxiliary contacts	201909	35 g
Connection for cable lug			
	Assembly kit for connecting conductors with cable lug	171292	32 g

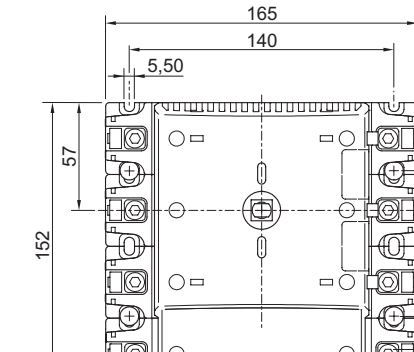
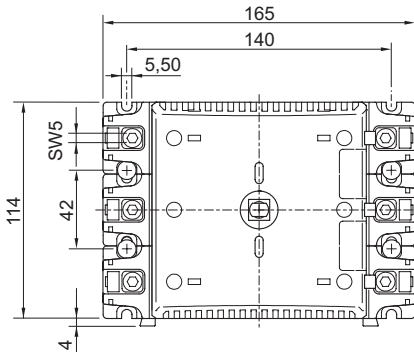
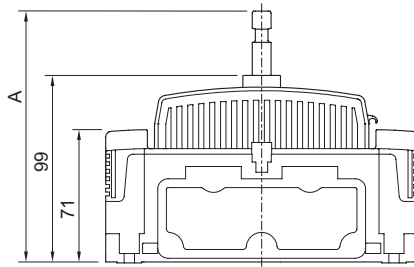
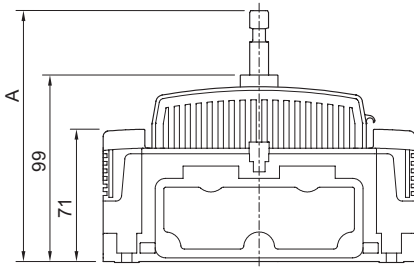
Spare Parts			
Figure	Description	Art. No.	Weight
Ex i isolating element			
	for ensuring the required 50 mm tight string length between the connection points of intrinsically safe and non-intrinsically safe circuits	169683	8 g
Parallel drive			
	for actuating two combined load and motor switches at the same time	171330	327 g
PE/N terminal			
	for retrofitting	168347	600 g
Pick-off terminal block			
	Pick-off terminal block 10-UKH 50	168543	14 g
Rotary actuator			
	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	325 g
	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	325 g
	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	325 g
Rotary actuator for 6-pole safety switch			
	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	830 g
Rotary actuator for 6-pole switch			
	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	830 g
	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	830 g

Spare Parts

Figure	Description	Art. No.	Weight
Rotary actuator for safety switch			
	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	325 g
	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	325 g
Selector shaft			
	52 mm for 8146/...2	168354	31 g
	71 mm for 8146/...3 or 8150/.....-150	168355	46 g
	111 mm for 8146/...5 or 8150/.....-190	168357	77 g

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

E9



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

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