



- 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

E9

WebCode **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.

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


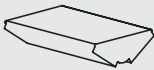
Selection Table					
Product Description	Load and motor switch Load disconnect switch				
Figure	Detailed number of poles	Ambient temperature	Product Type	Art. No.	Weight kg
	3 P	-50 °C ... +80 °C	8544/1-32	171154	2.200
		-30 °C ... +80 °C	8544/1-31	165675	2.200
	3 P + N	-50 °C ... +80 °C	8544/1-42	171156	2.800
		-30 °C ... +80 °C	8544/1-41	167240	2.800

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

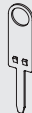

Technical Data

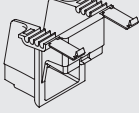
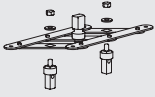
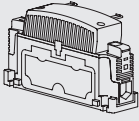
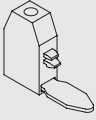
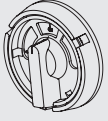
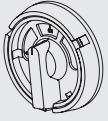

Mechanical Data	
Contact material	Silver stannic oxide
Connection terminal, stranded max.	50 mm ²
Min. auxiliary contact connection terminals	1.5 mm ²
Max. auxiliary connection connection terminals, solid	2.5 mm ²
Max. auxiliary connection connection terminals, finely stranded	2.5 mm ²
Connection cross-section	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 kg
Auxiliary contact			
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 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	0.026
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 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 ■	0.026
	2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 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	0.026
Insertion prism			
	for connection of conductors with cross-sections ≤ 10 mm ² (conductor connection) or ≤ 6 mm ² (connection of several conductors) to the main terminals	171324	0.012

Spare Parts

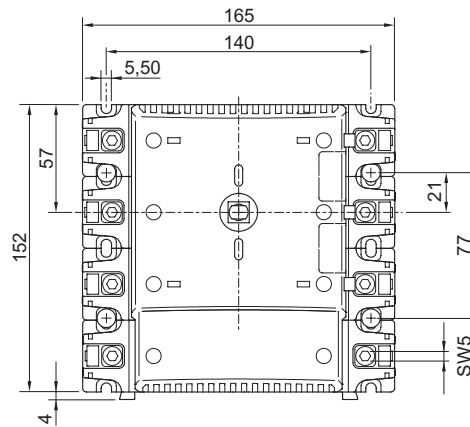
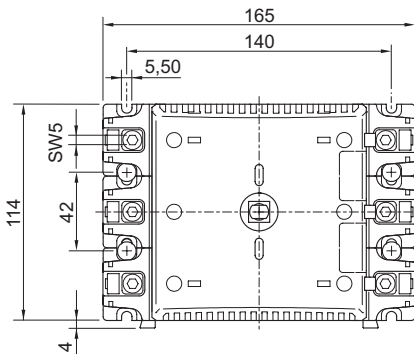
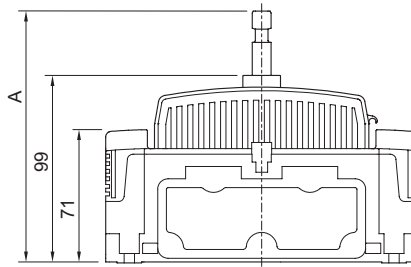
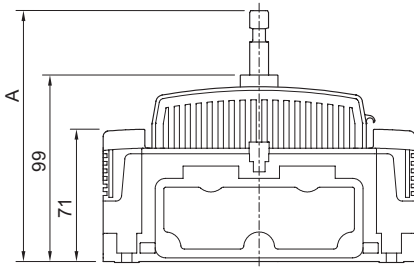
Figure	Description	Art. No.	Weight kg
Auxiliary contact key			
	for removing the mounted auxiliary contact	201909	0.035
Connection for cable lug			
	Mounting kit for the connection of conductors with cable lug	171292	0.032

Spare Parts			
Figure	Description	Art. No.	Weight kg
Ex i separation body			
	to ensure the required distance of 50 mm between the connection points of intrinsically safe and non-intrinsically safe circuits	169683	0.008
Parallel drive			
	to actuate simultaneously 2 combined load and motor switches	171330	0.327
PE/N terminal			
	for subsequent assembly	168347	0.600
Pick-off terminal block			
	AGK 10-UKH 50	168543	0.014
Rotary acuator			
	Ø 122.5; can be padlocked in 0 position using max. 3 padlocks 8604C1-2-1-1-01-1-2 Handle: black Protective collar: black Designation plate: 0/OFF - I/ON	201436	0.325
	Ø 122.5; can be padlocked in 0 position using max. 3 padlocks 8604C1-2-1-1-01-2-2 Handle: red Protective collar: yellow Designation plate: 0/OFF - I/ON	201437	0.325
	Ø 122.5; can be padlocked in 0 position using max. 3 padlocks 8604C1-2-1-1-01-3-2 Handle: red Protective collar: black Designation plate: 0/OFF - I/ON	201438	0.325
Rotary acuator for 6-pole safety switch			
	Ø 180 mm; can be padlocked in 0 position using max. 3 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	0.830
Rotary acuator for 6-pole switch			
	Ø 180; can be padlocked in 0 position using max. 3 padlocks 8604C1-3-1-1-01-1-1 Handle: black Protective collar: black Designation plate: 0/OFF - I/ON	201454	0.830
	Ø 180; can be padlocked in 0 position using max. 3 padlocks 8604C1-3-1-1-01-3-1 Handle: red Protective collar: black Designation plate: 0/OFF - I/ON	201457	0.830

Spare Parts			
Figure	Description	Art. No.	Weight kg
Rotary acuator for safety switch			
	Ø 122.5; can be padlocked in 0 position using max. 3 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	0.325
	Ø 122.5; can be padlocked in 0 position using max. 3 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	0.325
Selector shaft			
	52 mm for 8146/...2	168354	0.031
	71 mm for 8146/...3 or 8150/-.....-150	168355	0.046
	111 mm for 8146/...5 or 8150/-.....-190	168357	0.077

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

E9



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

8544/1-4, 3 pole + N

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