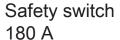
### **Load Disconnect Switches and Motor Starters**



8146/5-V37-610-51-0010 Art. No. 213490





- Can be used with conventional drives and drives controlled by frequency converters
- Intelligent design: A single rotary actuator for actuating both main and auxiliary contacts, ≥ 20 ms leading auxiliary contact for safely disconnecting the frequency converter
- · Version complies with IEC/EN 62626-1, Class 1
- The rotary actuator can be locked with 3 padlocks in the 0position

### WebCode 8146L

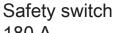


R. STAHL's 8146/5-V37 series safety switches safely disconnect the power supply to machinery and system components for cleaning and repair as prescribed. All of the installed load disconnect switches have an AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

#### **Technical Data**

Explosion Protection			
Scope of validity	European Union (ATEX)		
	IECEx		
Application range (zones)	1		
	2		
	21		
	22		
IECEx gas certificate	IECEx PTB 06.0090		
IECEx gas explosion protection	Ex db eb IIC T4 Gb		
IECEx dust certificate	IECEx PTB 06.0090		
IECEx dust explosion protection	Ex tb IIIC T130 °C Db		
ATEX gas certificate	PTB 01 ATEX 1024		
ATEX gas explosion protection			
ATEX dust certificate	PTB 01 ATEX 1024		
ATEX dust explosion protection			
Certificates	ATEX (PTB), China (NEPSI), IECEx (PTB), India (PESO)		
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.		
Electrical Data			
Rated operational voltage AC	400 V		
Rated operational current	180 A		
Switching capacity AC-3 230 V	55 kW		
Switching capacity AC-3 400 V	90 kW		
Auxiliary contact NC	1 NC		
Auxiliary contact NO	1 NO/delayed		
Frequency range	50 – 60 Hz		
Ambient conditions			

# **Load Disconnect Switches and Motor Starters**



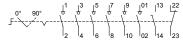
180 A

8146/5-V37-610-51-0010 Art. No. 213490



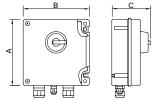
Ambient conditions	Number of poles		max. cur- rent (A)	Conductor cross-section 1) (mm²)		Temperature class / perm. ambient temper-
	Main contacts	Auxiliary contact		min.	max.	ature
	6	2	180	120	150	T4: -40 +50 °C <sup>2)</sup>
	<sup>1)</sup> Project engineering note: The maximum conductor cross-sections given were determined using the H07V. The minimum bending radius was assumed to be 4 x outer diameter in accordance with VDE 0298-3. <sup>2)</sup> only with heat-resistant conductor > 70 °C at cable entries and/or > 85 °C at clamping units <b>Bold:</b> Observe information on the type plate					
Mechanical Data						
Degree of protection (IP)	IP66					
Degree of protection note	acc. to EN/IEC 60529					
Enclosure material	Polyester resin, Glass fibre reinforced					
Connection cross section	120 150 mm²					
Auxiliary connection connection terminals	0.75 2.5 mm²					
Connection cross-section note	Depending on the application, for more detailed information see operating instructions at r-stahl.com					
Construction type	Standard					
Dimension A	1023 mm					
Dimension B	681.5 mm					
Dimension C	243 mm					
Handle colour	Black shroud and handle					
Seal	Silicone, foamed					
Lockable in	3x in 0					
Detailed number of poles	6-pole					
Weight	37.36 kg					
Weight	82.36 lb					
Components						
Entry type	Standard 8161, moulded material					
Cable gland	4 x M63 Ø 28 to 48 mm 1 x M20 Ø 4 to 13 mm					

#### **Technical Drawings - Subject to Alterations**

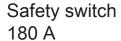


8146/5-V..-6..-51-.. 6-pole + 1 NO (ON delayed – OFF leading), 1 NC

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



# **Load Disconnect Switches and Motor Starters**





8146/5-V37-610-51-0010 Art. No. 213490

#### **Accessories**

Auxiliary contact		Art. No.	
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 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 contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 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 contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353	

## **Spare Parts**

Auxiliary contact key		Art. No.
a a	for removing the mounted auxiliary contact	201909

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.