



#### Load and Motor Switches Series 8548

- Explosion protection to
  - CENELEC
  - IEC
- For use in Zone 1 and Zone 2
- Isolator
- Motor switching capacity
- Rated working voltage up to 690 V
- Rated working current 125 A / 160 A
- Different switching sequences available

10936E00



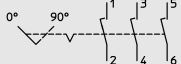
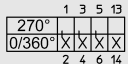
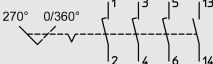
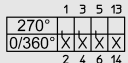
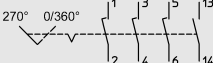
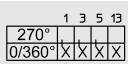
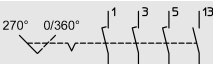
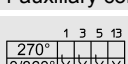
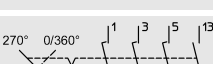
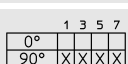
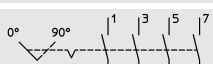
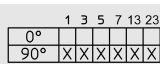
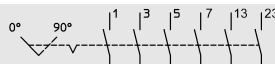
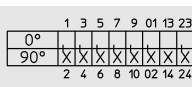
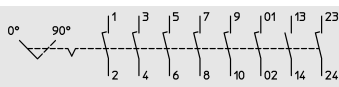
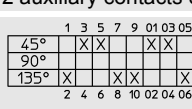

STAHL

Load and motor switches Series 8548 meets all requirements for use as motor switches or primary switches.

Since these switches are not complete electrical units, they must be fitted into enclosures protected to the Ex e "increased safety" standard.

# Zones 1 & 2

**Selection Table**

Version	Description	Ordering Code
 <p>01769E00</p> <p>Load and motor switch 125 A / 160 A Series 8548</p>	<p>3 pole</p>   <p>08899E00</p> <p>Switching arrangement no. 006 Contact material: silver-cadmium</p>	<b>8548/2-006-000</b>
	<p>4 pole</p>   <p>04676E00</p> <p>Switching arrangement no. 001 Contact material: silver-cadmium 1 auxiliary contact 8548</p>	<b>8548/2-001-005</b>
	  <p>04676E00</p> <p>Switching arrangement no. 001 Connection via cable lug Contact material: silver-cadmium 1 auxiliary contact 8548</p>	<b>8548/2-001-005-3</b>
	  <p>04676E00</p> <p>Switching arrangement no. 001 For flange sockets With earth terminal and N-terminal at the base Contact material: silver-cadmium 1 auxiliary contact 8548</p>	<b>8548/2-001-305-6</b>
	  <p>04676E00</p> <p>Switching arrangement no. 003 For plugs and sockets With earth terminal and N-terminal at the base Contact material: silver-cadmium 1 auxiliary contact 8548</p>	<b>8548/2-003-305-5</b>
	  <p>08900E00</p> <p>Switching arrangement no. 021 Contact material: silver-cadmium</p>	<b>8548/2-021-000</b>
	<p>6 pole</p>   <p>10186E00</p> <p>Switching arrangement no. 064 Contact material: silver-cadmium 2 auxiliary contacts 8006</p>	<b>8548/2-064-002</b>
	<p>8 pole</p>   <p>10108E00</p> <p>Switching arrangement no. 011 Connection via cable lug Contact material: silver-cadmium 2 auxiliary contacts 8006</p>	<b>8548/2-011-002-3</b>
	  <p>10130E00</p> <p>Switching arrangement no. 051 Contact material: silver-cadmium</p>	<b>8548/2-051-000</b>



## Technical Data

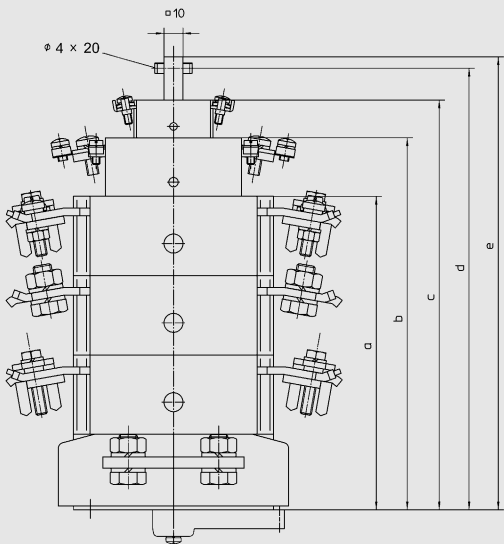
Explosion protection	⊕ II 2 G EEx de IIC T6 or T5				
Certificates	PTB 01 ATEX 1058 U				
Other certificates	IECEX				
Enclosure material	epoxy resin				
Contacts	max. 8 pole / 4 switching levels *)				
Main contacts					
Rated working voltage	690 V AC (125 A), 500 V (160 A)				
Rated working current	125 A / 160 A				
Switching capacity	AC 3:		AC 23:		
	230 V	125 A	37 kW	160 A	45 kW
	400 V	125 A	55 kW	160 A	75 kW
	500 V	100 A	75 kW	160 A	110 kW
	690 V	80 A	90 kW	125 A	110 kW
	DC 1:		DC 5:		
	1 pole	110 V	125 A	60 V	80 A
	2-/3 poles	220 V	125 A	110 V	110 A
Terminals	16 mm <sup>2</sup> ... 95 mm <sup>2</sup> flexible 16 mm <sup>2</sup> ... 120 mm <sup>2</sup> stranded				
Life	10 <sup>5</sup> operations				
Auxiliary contacts					
Rated working voltage	690 V AC				
Rated working current	16 A				
Terminals	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> solid / flexible				
Switching capacity	contact material: silver-cadmium				
	AC 3:	690 V	16 A		
	DC 13:	230 V	0.4 A		
	contact material: gold-plated				
	min. 24 V / 100 mA				
Back-up fuse	max. 160 A gL / gG				
Ambient temperature range	- 50 °C ... + 100 °C T5: up to + 55 °C T6: up to + 40 °C				
Weight	2 switching chambers		approx 3,30 kg		
	2 switching chambers with auxiliary contacts		approx 3,50 kg		
	3 switching chambers with auxiliary contacts		approx 3,90 kg		
	4 switching chambers with auxiliary contacts		approx 5,05 kg		

\*) The switches have two switching chambers per level. Individual switching levels with 1 or 2 contacts each to form a unit provide an optimal solution for individual applications. The contact chambers are being operated by the ratched wheels in a staggered fashion, thus enabling all around switching without interference.

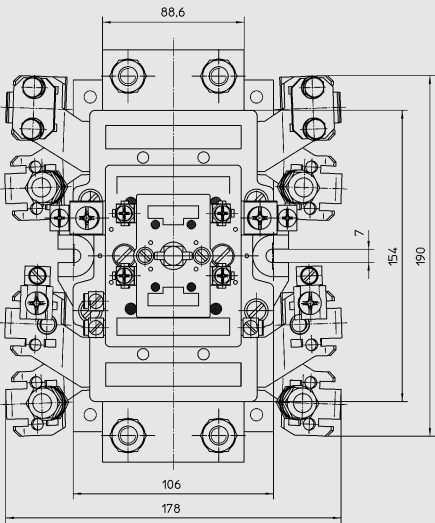
**Accessories and Spare Parts**

Designation	Illustration	Description	Ordering Code	Weight kg	
Rotary actuator		∅ 180 mm; lockable in OFF-position up to 3 padlocks			
		Handle: black / black Symbol disc: 0/OFF - I/ON	8604A0146-1-1	<b>8604825167</b>	1,015
		Handle: red / yellow Symbol disc: 0/OFF - I/ON	8604A0147-1-2	<b>8604835167</b>	1,015
Symbol discs for rotary actuator		Text 0/OFF - I/ON	<b>8601904850</b>	0,001	

**Dimension Drawings (all dimensions in mm) - subject to alterations**



Switching chamber levels main contacts 8548	Switching chamber levels auxiliary contacts 8006	Dimensions (mm)				
		a	b	c	d	e
1	0	82	--	--	101.5	107.5
	1		102	--	143.5	149.5
	2		--	122	143.5	149.5
2	0	124	--	--	143.5	149.5
	1		144	--	178.5	178.5
	2		--	164	185.5	191.5
3	0	166	--	--	185.5	191.5
	1		185	--	207.5	213.5
	2		--	206	232.5	238.5
4	0	208	--	--	232.5	238.5
	1		228	--	262.5	268.5
	2		--	248	262.5	268.5



03454E00

**Load and motor switches 125 A / 160 A Series 8548**

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.

