

# Load and Motor Switches

## Series 8511



www.stahl.de



03160E00

- > Motor switching capacity AC-3 to DIN VDE 0660 / IEC/EN 60947
- > Isolating switch characteristics
- > Available for rated operating currents of 16 A to 630 A
- > Robust enclosures made of
  - glass fibre-reinforced polyester resin
  - sheet steel (surge chamber with connection space)
- > Large handle, lockable, black or yellow / red colours
- > Degree of protection IP66



Series 8511 load and motor switches are used as main connection switches for distribution units and motor circuits. The standard range of switches have rated operating currents up to 25 A. Switches for higher rated operating currents are designed and manufactured to order.

E7

	ATEX							Class I (NEC 505) (NEC 506)							Class I Class II Class III					
Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
For use in		x	x		x	x	For use in		x <sup>*)</sup>					For use in		x <sup>*)</sup>				

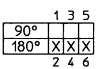
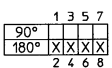
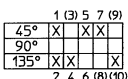
<sup>\*)</sup> Special version on request

**WebCode 8511A**

# Load and Motor Switches

## Series 8511

**Selection Table**

Version	Description	Rated operating current I <sub>e</sub>	P at 400 V AC-3 kW	Cable glands	Order number	Weight kg	
Load and motor switches Series 8511	 ON-OFF switches (0 - I) 3-pole with N-terminal <small>08790E00</small>	16 A	7.5	2 x 8161/5-M25	<b>8511/1-102-00</b>	1.400	
			7.5	2 x 8161/5-M25	<b>8511/1-102-01</b>	1.400	
		25 A	11	2 x 8161/5-M32	<b>8511/1-103-00</b>	1.900	
			11	2 x 8161/5-M32	<b>8511/1-103-01</b>	1.900	
		16 A	7.5	2 x 8161/5-M25	<b>8511/1-102-14</b>	1.400	
			7.5	2 x 8161/5-M25	<b>8511/1-102-15</b>	1.400	
	 ON-OFF switches (0 - I) 4-pole <small>08791E00</small>	16 A	7.5	2 x 8161/5-M25	<b>8511/1-602-00</b>	1.500	
			7.5	2 x 8161/5-M25	<b>8511/1-602-01</b>	1.500	
		25 A	11	2 x 8161/5-M32	<b>8511/1-603-00</b>	1.700	
			11	2 x 8161/5-M32	<b>8511/1-603-01</b>	1.700	
		16 A	7.5	2 x 8161/5-M25	<b>8511/1-602-14</b>	1.500	
			7.5	2 x 8161/5-M25	<b>8511/1-602-15</b>	1.500	
		25 A	11	2 x 8161/5-M32	<b>8511/1-603-14</b>	1.700	
			11	2 x 8161/5-M32	<b>8511/1-603-15</b>	1.700	
		 Reversing switch (1 - 0 - 2) 3-pole <small>08792E00</small>	16 A	7.5	2 x 8161/5-M25	<b>8511/1-502-00</b>	2.400
				7.5	2 x 8161/5-M25	<b>8511/1-502-14</b>	2.400
			25 A	11	2 x 8161/5-M32	<b>8511/1-503-00</b>	1.500
				11	2 x 8161/5-M32	<b>8511/1-503-14</b>	1.500
16 A	7.5		2 x 8161/5-M25	<b>8511/1-502</b>	2.400		
25 A	11		2 x 8161/5-M32	<b>8511/1-503</b>	1.500		

**Order Number Supplement**

Modifications to standard design are available, e.g. red handle with yellow collar for EM-STOP function, different cable entries – specify on order	
8511/-...-00	Standard design
8511/-...-01	Standard design with yellow collar and red handle
8511/-...-14	Standard design with brass plates
8511/-...-15	Standard design with yellow collar, red handle and brass plates

# Load and Motor Switches

## Series 8511

### Explosion Protection

#### Europe (ATEX)

Gas and dust	PTB 01 ATEX 1024 (certificate type 8146/5)
	⊕ II 2 G Ex ed IIC T6
	⊕ II 2 D Ex tD A21 IP66 T80°C

#### Certificates and approvals

Certificates	ATEX, Canada (CSA), USA (FM, UL), Belarus (GOST-B)
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### Technical Data

#### Electrical data

Type/Size	8511/1-.02 16 A	8511/1-.03 25 A																				
Rated operational voltage	690 V , AC	690 V , AC																				
Rated operating current	16 A	25 A																				
Switching capacity	AC-3 to IEC/EN 60947	AC-3 to IEC/EN 60947																				
	<table border="1"> <thead> <tr> <th>U</th> <th>P</th> </tr> </thead> <tbody> <tr> <td>230 V</td> <td>4.0 kW</td> </tr> <tr> <td>400 V</td> <td>7.5 kW</td> </tr> <tr> <td>500 V</td> <td>7.5 kW</td> </tr> <tr> <td>690 V</td> <td>11 kW</td> </tr> </tbody> </table>	U	P	230 V	4.0 kW	400 V	7.5 kW	500 V	7.5 kW	690 V	11 kW	<table border="1"> <thead> <tr> <th>U</th> <th>P</th> </tr> </thead> <tbody> <tr> <td>230 V</td> <td>5.5 kW</td> </tr> <tr> <td>400 V</td> <td>11 kW</td> </tr> <tr> <td>500 V</td> <td>15.0 kW</td> </tr> <tr> <td>690 V</td> <td>22.0 kW</td> </tr> </tbody> </table>	U	P	230 V	5.5 kW	400 V	11 kW	500 V	15.0 kW	690 V	22.0 kW
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Service life	> 10 <sup>5</sup> Operations	> 10 <sup>5</sup> Operations																				
Main contacts	max. 8-pole	max. 8-pole																				
Short circuit protection	50 A, gG	50 A, gG																				

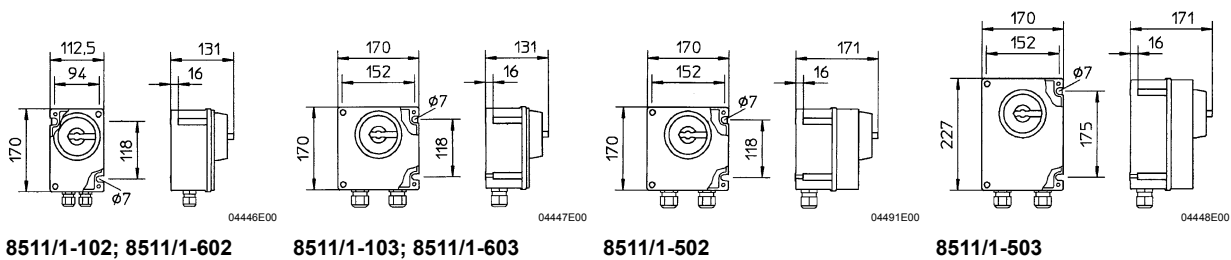
#### Ambient conditions

Ambient temperature	- 40 ... + 55 °C
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#### Mechanical data

Type/Size	8511/1-.02 16 A	8511/1-.03 25 A
Degree of protection	IP66	IP66
Enclosure material	polyester	polyester
Terminals	4 / 6 mm <sup>2</sup> , finely stranded / solid	6 / 10 mm <sup>2</sup> , finely stranded / solid
Switch handle	in 0-position padlockable in 3 positions Colour: handle black, collar black Special: red handle, collar yellow (EM-STOP function)	

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



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.