

# Components for system solutions

STAHL

Mld cse crt bkr w/o the. trig.

100 A

8550/1-MCS-GLS3-MO-100-95-AS1-FS1-0000 Art. No. 315919



- Magnetic disconnect device for protecting against damage caused by short circuits
- Isolating function in accordance with EN 60947-2
- International approvals for worldwide use
- Simple replacement or expansion of your system thanks to a modular design
- Padlock provides locking in the "ON" and "OFF" positions
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Large cable dia. range of the main terminals

MY R. STAHL 8550D



R. STAHL Series 8550 short-circuit breakers provide exceptional current limiting for short circuits and a high switching capacity from 100 A to 10 kA. The short-circuit trigger threshold is 16 times the nominal current. The components are designed to be modular and are therefore ideal for combining with the contactor, also available in this series, and overload relay to form a motor starter. Other applications are in power distribution boards.

## Technical Data

### Explosion Protection

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Application range (zones)      | 1, 2                                                          |
| Application range (Zone) note  | For use in Zone 21/22 when protected by Ex tb/tc enclosure    |
| IECEX gas certificate          | IECEX FMG 22.0005U                                            |
| IECEX gas explosion protection | Ex db eb IIC Gb                                               |
| ATEX gas certificate           | FM 22 ATEX 0017 U                                             |
| ATEX gas explosion protection  | Ex II 2 G Ex db eb IIC Gb                                     |
| FMus certificate               | FM22US0011U                                                   |
| cFM certificate                | FM22CA0006U                                                   |
| Marking FMus                   | Class I, Div. 2, Groups A,B,C,D;<br>Zone 1, AEx db eb IIC Gb; |
| Marking cFM                    | Ex db eb IIC Gb;<br>Class I, Div. 2, Groups A,B,C,D;          |
| Certificates                   | ATEX (FM), Brazil (ULB), Canada (FM), IECEX (FM), USA (FM)    |

### Electrical Data

|                                               |                                         |
|-----------------------------------------------|-----------------------------------------|
| Rated operational voltage AC                  | 12 ... 415 V                            |
| AC rated operat. voltage (NEC)                | 12 ... 480 V                            |
| Rated operational current                     | 100 A                                   |
| Electrical service life                       | 8000                                    |
| Mechanical service life                       | 10 <sup>4</sup>                         |
| Rated impulse voltage Uimp                    | 8 kV                                    |
| Main contacts                                 | 3-pole (3 NO)                           |
| 1st auxiliary function                        | Auxiliary contact 1 change-over contact |
| 1st auxiliary function for AC rated voltage   | 240 V                                   |
| 1st auxiliary function voltage max. DC        | 250 V                                   |
| 1st auxiliary function for rated current max. | 6 A                                     |

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## Electrical Data

|                                               |                                            |
|-----------------------------------------------|--------------------------------------------|
| 2nd auxiliary function                        | Fault signal contact 1 change-over contact |
| 2nd auxiliary function voltage AC             | 240 V                                      |
| 2nd auxiliary function voltage max. DC        | 250 V                                      |
| 2nd auxiliary function for rated current max. | 6 A                                        |
| 3rd auxiliary function                        | without                                    |
| Tripping time                                 | 0 – 10 ms                                  |
| Frequency range                               | 50 – 60 Hz                                 |

## Ambient Conditions

|                     |                    |
|---------------------|--------------------|
| Ambient temperature | -25 °C ... +70 °C  |
| Ambient temperature | -13 °F ... +158 °F |

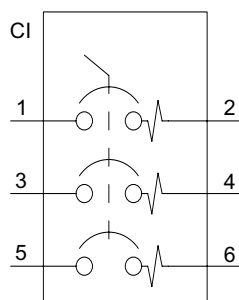
## Mechanical Data

|                                                |                              |
|------------------------------------------------|------------------------------|
| Degree of protection (IP)                      | IP20                         |
| Enclosure material                             | Thermoplast                  |
| Connection cross-section                       | 25 – 95 mm <sup>2</sup>      |
| Connection cross-section AWG                   | 4 ... 4/0 AWG                |
| Auxiliary contact connection cross section     | 0.75 ... 2.5 mm <sup>2</sup> |
| Auxiliary contact connection cross section AWG | 18 ... 14 AWG                |
| Width                                          | 150 mm                       |
| Width, inches                                  | 5.91 in                      |
| Height                                         | 196 mm                       |
| Height in inches                               | 7.72 in                      |
| Depth                                          | 336.6 mm                     |
| Depth in inches                                | 13.25 in                     |
| Weight                                         | 4.3 kg                       |
| Weight                                         | 9.48 lb                      |

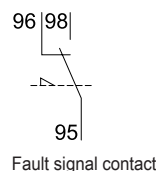
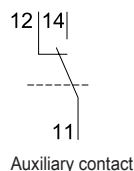
## Mounting / Installation

|                                            |                      |
|--------------------------------------------|----------------------|
| Tightening torque                          | 15 – 20 N · m        |
| Tightening torque lbf in                   | 132 to 177 lbf in    |
| Tightening torque auxiliary contact        | 0.4 – 0.6 N · m      |
| Tightening torque auxiliary contact lbf in | 3.54 ... 5.31 lbf-in |

## Technical Drawings – Subject to Alterations



Circuit diagram of the device



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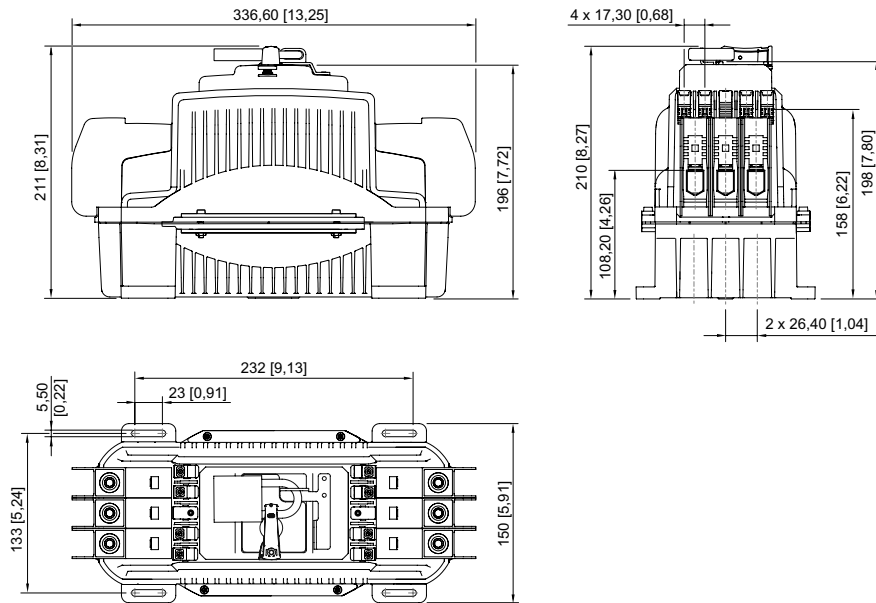
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### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



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.