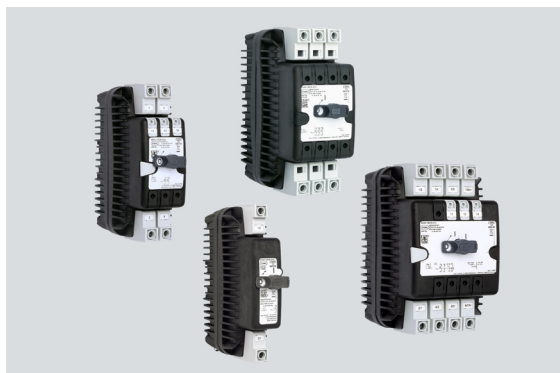


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- Isolation function in accordance with EN60947-2
- Energy limitation class 3
- Simple replacement or expansion of your system thanks to a modular circuit breaker design
- Simple installation – it snaps onto the mounting rail in Ex e enclosures
- Non-adjustable thermal and magnetic releases
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Padlocks (Accessories) provide protection against being switched on again during maintenance work

### MY R. STAHL 8530A



R. STAHL 8530 series miniature circuit breakers are overcurrent devices that also provide good current limiting for short circuits and a high switching capacity of 10, 15 or 25 kA. This results in a low load on cables and a high selectivity for upstream fuses. The components have a modular design and are therefore available in 1- to 4-pole versions and for rated currents of 0.5-63 A. The maximum installation capacity is 4.5 subunits.

## 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 19.0029U                                         |
| IECEX gas explosion protection | Ex db eb IIC Gb                                            |
| ATEX gas certificate           | FM19ATEX0191U                                              |
| ATEX gas explosion protection  | II 2 G Ex db eb IIC Gb                                     |
| Certificates                   | ATEX (FM), Brazil (ULB), China (CQST), IECEX (FM)          |
| Declaration of conformity      | Certificate of conformity (ATEX)                           |

### Electrical Data

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Rated operational voltage AC                  | 230 V                                                                                |
| Rated operational current                     | 16 A                                                                                 |
| Frequency                                     | 50/60 Hz                                                                             |
| Rated switching capacity                      | 10 kA                                                                                |
| Electrical service life                       | 2 x 10 <sup>4</sup>                                                                  |
| Mechanical service life                       | 2 x 10 <sup>4</sup>                                                                  |
| 1st auxiliary function                        | Auxiliary contact 1 change-over contact + fault signal contact 1 change-over contact |
| 1st auxiliary function for AC rated voltage   | 230 V                                                                                |
| 1st auxiliary function for rated current max. | 2 A                                                                                  |
| 2nd auxiliary function                        | without                                                                              |
| 2nd auxiliary function voltage max. DC        | -                                                                                    |
| Tripping characteristic                       | B                                                                                    |
| No. of poles                                  | 1-pole                                                                               |

### Ambient Conditions

|                     |                  |
|---------------------|------------------|
| Ambient temperature | -40 °C ... 70 °C |
| Ambient temperature | -40 °C ... 70 °C |

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### Ambient Conditions

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Ambient temperature      | -40 °F ... 158 °F                                                                 |
| Ambient temperature      | -40°F ... +158°F                                                                  |
| Ambient temperature note | Deviating ambient temperatures based on current certificates available on request |

### Mechanical Data

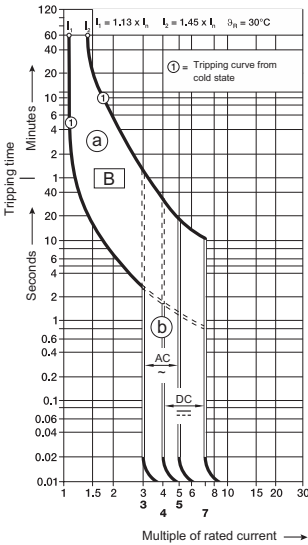
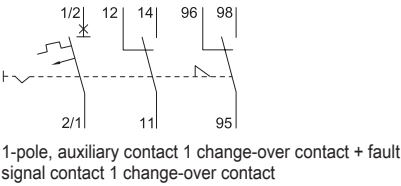
|                                                        |                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection (IP) (IEC 60529)                  | IP2X                                                                                                                                                                                                                                                                                                                                           |
| Enclosure material                                     | Thermoplast                                                                                                                                                                                                                                                                                                                                    |
| Connection cross section min.                          | 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                            |
| Connection cross-section max.                          | 25 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                             |
| Connection cross-section AWG min.                      | 16 AWG                                                                                                                                                                                                                                                                                                                                         |
| Connection cross-section AWG max.                      | 4 AWG                                                                                                                                                                                                                                                                                                                                          |
| Connection cross-section 2 min.                        | 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                            |
| Connection cross-section 2 max.                        | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                             |
| Connection cross-section 2 AWG min.                    | 16 AWG                                                                                                                                                                                                                                                                                                                                         |
| Connection cross-section 2 AWG max.                    | 8 AWG                                                                                                                                                                                                                                                                                                                                          |
| Min. aux. cont. con. cr.-sect.                         | 0.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                            |
| Max. aux. cont. conn. cr.-sec.                         | 4 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                              |
| Min. aux. co. con. cr.-se. AWG                         | 18 (unece.unit.AWG)                                                                                                                                                                                                                                                                                                                            |
| Connection cross-section of auxiliary contact AWG max. | 14 (unece.unit.AWG)                                                                                                                                                                                                                                                                                                                            |
| Min. tightening torque                                 | 2 N · m                                                                                                                                                                                                                                                                                                                                        |
| Max. tightening torque                                 | 3 N · m                                                                                                                                                                                                                                                                                                                                        |
| Connection cross-section note                          | <b>2-conductor connection (upper and lower chamber at the same time):</b><br>- upper and lower chamber max. 16 / 10 mm <sup>2</sup> (A maximum difference of one cross section may be clamped between the upper and lower chamber.)<br><br>The permitted combinations of connection cross-sections can be found in the operating instructions. |
| Width                                                  | 65 mm                                                                                                                                                                                                                                                                                                                                          |
| Width, inches                                          | 2.56 in                                                                                                                                                                                                                                                                                                                                        |
| Length                                                 | 165 mm                                                                                                                                                                                                                                                                                                                                         |
| Length in inches                                       | 6.5 in                                                                                                                                                                                                                                                                                                                                         |
| Mounting depth                                         | 138.3 mm                                                                                                                                                                                                                                                                                                                                       |
| Mounting depth in inches                               | 5.44 in                                                                                                                                                                                                                                                                                                                                        |
| Weight                                                 | 1 kg                                                                                                                                                                                                                                                                                                                                           |
| Weight                                                 | 2.205 lb                                                                                                                                                                                                                                                                                                                                       |

### Mounting / Installation

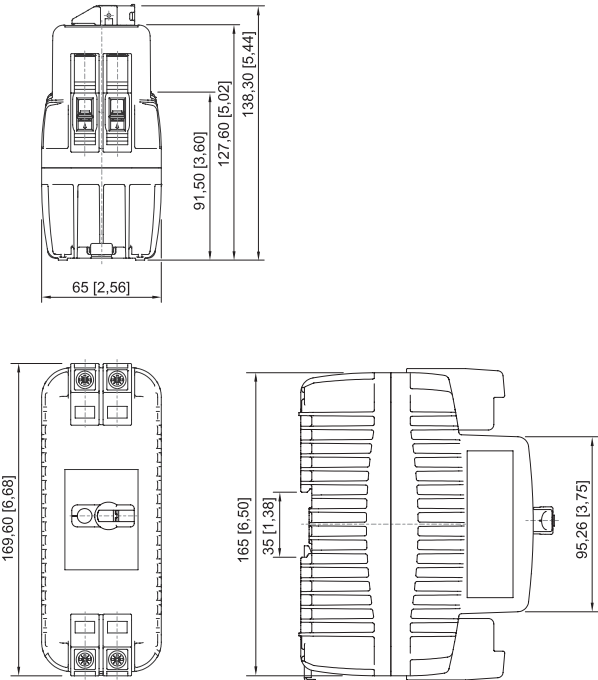
|                                            |                     |
|--------------------------------------------|---------------------|
| Tightening torque                          | 2 – 3 N · m         |
| Tightening torque lbf in                   | 17.7 to 26.6 lbf-in |
| Tightening torque auxiliary contact        | 0.4 – 0.6 N · m     |
| Tightening torque auxiliary contact lbf in | 3.5 to 5.3 lbf in   |

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Technical Drawings – Subject to Alterations



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



8530/1; 2 horizontal pitches

Accessories

4-way locking device



A lock-out/tag-out hasp for individually locking the component using up to four cylinder locks.

Art. No.

227232

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| Cylinder lock                                                                    |                                                                                      | Art. No. |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
|  | for closing (bracket Ø 3)                                                            | 107115   |
| Fastening set                                                                    |                                                                                      | Art. No. |
|  | A fastening set for fastening the component on the mounting plate without a DIN rail | 276618   |

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.