





- Fault current monitoring and tripping in the event of overcurrent and short circuit
- Combination of residual current circuit breaker and miniature circuit breaker: Saves space, reduces installation effort
- · Safe functional test using the integrated test button
- · Can be used globally thanks to international approvals
- 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
- Padlocks provide protection against being switched on again during maintenance work
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely

MY R. STAHL 8530C



The RCD/MCB 8530 series from R. STAHL is a residual current circuit breaker and a miniature circuit breaker in one:

It monitors residual currents and triggers in the event of large residual currents. In addition, it protects against overvoltage, switches off short circuits up to 10 kA and therefore protects the cables in their systems in the event of an earth fault, overload or short circuit. The excellent current limiting feature reduces the cable load in the event of a short circuit. The residual current tripping variants A, AS, AP-R, B, BS, B+ and F, as well as an A110V version, are available.

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 | |
| Certificates | ATEX (FM), Brazil (ULB), China (CQST), IECEx (FM) |
| Declaration of Conformity | Certificate of conformity (ATEX), China (CCC) |
| Electrical Data | |
| Rated operational voltage AC | 230 V |
| Rated operational current | 20 A |
| Frequency | 50/60 Hz |
| Rated switching capacity | 10 kA |
| Electrical service life | 2 x 10 ⁴ |
| Mechanical service life | 2 x 10 ⁴ |
| Rated residual current | 0.03 A |
| 1st auxiliary function | without |
| 2nd auxiliary function | without |
| Release type | Sensitive to alternating/pulse current |
| Tripping characteristic | В |
| No. of poles | 1-pole + N |



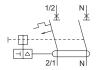
RCD/MCB Residual current circuit breaker With integrated overcurrent protection 8530/1-RCBO-STAA101N-30-B20-000-2 Art. No. 316882

| Ambient Conditions | |
|--|---|
| Ambient temperature | -25°C +55°C |
| Ambient temperature | -13°F +131°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 mm² |
| Connection cross-section max. | 25 mm² |
| Connection cross-section min. AWG | 16 AWG |
| Connection cross-section AWG max. | 4 AWG |
| Connection cross-section 2 min. | 1.5 mm² |
| Connection cross-section 2 max. | 10 mm² |
| Connection cross-section 2 min. AWG | 16 AWG |
| Connection cross-section 2 max. AWG | 8 AWG |
| Connection cross-section of auxiliary contact min. | 0.5 mm ² |
| Connection cross-section of auxiliary contact max. | 4 mm² |
| Connection cross-section of auxiliary contact AWG min. | 26 |
| Connection cross-section of auxiliary contact AWG max. | 12 |
| Min. tightening torque | 2 Nm |
| Max. tightening torque | 3 Nm |
| Connection cross-section note | 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) 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, inches | 6.5 in |
| Depth of cut-out | 138.3 mm |
| Mounting depth, inches | 5.44 in |
| Weight | 1.45 kg |
| Weight | 3.197 lb |
| Mounting / Installation | |
| Tightening torque | 2 – 3 Nm |
| Tightening torque lbf in | 17.7 to 26.6 lbf-in |
| Tightening torque auxiliary contact | 0.4 – 0.6 Nm |
| Tightening torque auxiliary contact lbf in | 3.5 to 5.3 lbf in |

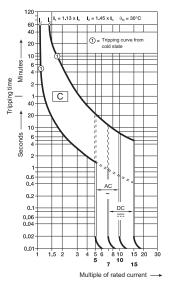


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Technical Drawings - Subject to Alterations

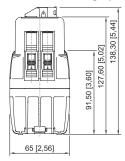


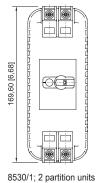
1-pole+N, without auxiliary contact

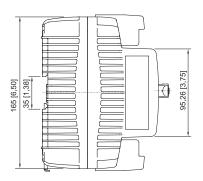


Tripping characteristic C

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







Accessories

| Cylinder lock | K. | Art. No. |
|---------------|---------------------------|----------|
| | for closing (bracket Ø 3) | 107115 |



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| Fastening set | | Art. No. |
|--------------------|--|----------|
| | A fastening set for attaching the component to the mounting plate without a DIN rail. | 276618 |
| Locking device qua | druple | Art. No. |
| See . | A lock-out / tag-out scissor for individual locking of the component using up to 4 cylinder locks. | 227232 |

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.