RCD/MCB residual current circuit breaker with integr. overvoltage prot.

8530/1-RCBO-STAA101N-300-C16-300-3 Art. No. 299451





Combination of residual current circuit breaker and miniature

circuit breaker: Saves space, reduces installation require-

Residual current monitoring and tripping in the event of over-

- · Reliable functional test using the integrated test button
- · International approvals for worldwide use

voltage and short circuit

- Simple replacement or expansion of your system thanks to a modular circuit breaker design
- Simple installation it snaps onto the mounting rail of 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 Series 8530 RCCD/MCB from R. STAHL is a residual current circuit breaker and miniature circuit breaker in one:

It monitors residual currents and triggers in the event of excessive residual currents. In addition, it protects against overvoltage, switches off short circuits up to 10 kA and therefore protects the conductors in your systems in the event of an earth fault, overload or short circuit. Its excellent current limiting feature reduces the load on the conductor 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 A110 V version, are available.

Technical Data

1, 2
For use in Zone 21/22 when protected by Ex tb/tc enclosure
IECEx FMG 19.0029U
Ex db eb IIC Gb
FM19ATEX0191U
ATEX (FM), Brazil (ULB), China (CQST), IECEx (FM)
Certificate of conformity (ATEX), China (CCC)
230 V
16 A
50/60 Hz
10 kA
2 x 10 ⁴
2 x 10 ⁴
0.3 A
Fault signal contact 1 change-over contact
230 V
2 A
without
-



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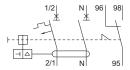
Release type Sensitive to alternating/pulse current Tripping characteristic C No. of poles 1-pole + N Ambient Conditions Ambient temperature -25 °C 55 °C Ambient temperature -13 °F +131 °F Ambient temperature Different ambient temperatures are possible on request based on the current certificates Mechanical Data Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section max 25 mm² Connection cross-section max 25 mm² Connection cross-section AWG min. 16 AWG Connection cross-section AWG min. 1.5 mm² Connection cross-section 2 min. 1.5 mm² Min. aux. cont. con. crsect. 0.5 mm² Min. aux. cont. con. crsect. 4 mm² Min.	Electrical Data	
Release type Sensitive to alternating/pulse current Tripping characteristic C No. of poles 1-pole + N Ambient Conditions Ambient temperature -25 °C 55 °C Ambient temperature -13 °F +131 °F Ambient temperature note Different ambient temperatures are possible on request based on the current certificates Machanical Data Degree of protection (IP) (IEC 60529) Enclosure material Thermoplast Connection cross-section min. 1.5 mm² Connection cross-section AWG min. 16 AWG Connection cross-section AWG mix. 4 AWG Connection cross-section AWG mix. 1.5 mm² Connection cross-section 2 max. 10 mm² Connection cross-section 2 AWG mix. 16 AWG Connection cross-section 2 AWG mix. 16 AWG Connection cross-section 2 max. 10 mm² Connection cross-section 2 max. 10 mm² Connection cross-section 2 AWG mix. 4 mm² Min. aux. co. co. cr. sec. AWG 8 (unece unit AWG) Connection cross-section or auxiliary Connection cross-section or auxiliar	2nd auxiliary function voltage max. DC	-
No. of poles 1-pole + N Ambient Conditions Ambient Imperature 2-25 °C 55 °C Ambient Imperature 3-13 °F + 131 °F Ambient Imperature 4-13 °F + 131 °F Ambient Imperature 5-13 °F + 131 °F Ambient Imperature 6-13 °F + 131 °F Ambient Imperature 7-13 °F + 131 °F Ambient Imperature 8-13 °F + 131 °F Ambien	Release type	Sensitive to alternating/pulse current
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Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section min. 1.5 mm² Connection cross-section AWG min. 16 AWG Connection cross-section AWG min. 1.5 mm² Connection cross-section AWG min. 1.5 mm² Connection cross-section 2 min. 16 AWG Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 AWG min. 17 Mm² Connection cross-section 2 AWG min. 18 AWG Min. aux. cont. con. crsect. 18 AWG Min. aux. cont. con. crsect. 18 (unece unit.AWG) Connection cross-section of auxiliary contact AWG max. 18 AWG Min. aux. cont. con. crsec. AWG Min. dipthening torque 2 N·m Max. tightening torque 3 N·m Connection cross-section note 2 Conductor connection (top and bottom chambers at the same time): - Top and bottom chambers max. 16/10 mm² (the maximum difference that can be champed between the top and bottom chambers is equal to the cross-section.) Refer to the operating instructions for the approved combination possibilities of the connection cross-sections. Width 83 mm Width, inches 3.27 in Length 165 mm Length in inches 6.5 in Mounting depth 133.3 mm Mounting depth 1.3 kg Weight 2.867 lb Mounting / Installation Tightening torque 15 in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 N·m	Ambient temperature note	Different ambient temperatures are possible on request based on the current certificates
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Connection cross-section 2 max.	Connection cross-section AWG max.	4 AWG
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Connection cross-section note 2-conductor connection (top and bottom chambers at the same time): - Top and bottom chambers max. 16/10 mm² (the maximum difference that can be clamped between the top and bottom chambers is equal to the cross-section.) Refer to the operating instructions for the approved combination possibilities of the connection cross-sections. Width 83 mm Width, inches 3.27 in Length 165 mm Length in inches 6.5 in Mounting depth 138.3 mm Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 lb Mounting / Installation Tightening torque 2 - 3 N · m Tightening torque auxiliary contact 0.4 - 0.6 N · m	Min. tightening torque	2 N · m
- Top and bottom chambers max. 16/10 mm² (the maximum difference that can be clamped between the top and bottom chambers is equal to the cross-section.) Refer to the operating instructions for the approved combination possibilities of the connection cross-sections. Width 83 mm Width, inches 3.27 in Length 165 mm Length 165 mm Length in inches 6.5 in Mounting depth 138.3 mm Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 lb Mounting / Installation Tightening torque 2 - 3 N · m Tightening torque auxiliary contact 0.4 - 0.6 N · m	Max. tightening torque	3 N · m
Width, inches 3.27 in Length 165 mm Length in inches 6.5 in Mounting depth 138.3 mm Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 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	Connection cross-section note	- Top and bottom chambers max. 16/10 mm² (the maximum difference that can be clamped between the top and bottom chambers is equal to the cross-section.) Refer to the operating instructions for the approved combination possibilities of the con-
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Length in inches 6.5 in Mounting depth 138.3 mm Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 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	Width, inches	3.27 in
Mounting depth 138.3 mm Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 lb Mounting / Installation Tightening torque Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 N · m	Length	165 mm
Mounting depth in inches 5.44 in Weight 1.3 kg Weight 2.867 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	Length in inches	6.5 in
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Weight 2.867 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	Mounting depth in inches	5.44 in
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	Weight	1.3 kg
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	Weight	2.867 lb
Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 N · m	Mounting / Installation	
Tightening torque auxiliary contact 0.4 – 0.6 N · m	Tightening torque	2 – 3 N · m
	Tightening torque lbf in	17.7 to 26.6 lbf-in
Tightening torque auxiliary contact lbf in 3.5 to 5.3 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

RCD/MCB residual current circuit breaker with integr. overvoltage prot.

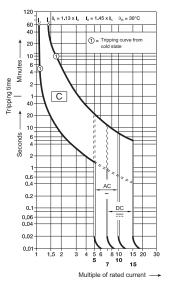




Technical Drawings - Subject to Alterations

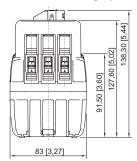


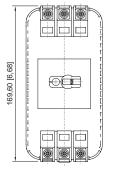
1-pole+N, fault signal contact 1 change-over contact

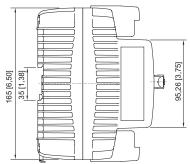


Tripping characteristic C

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







8530/1; 3 horizontal pitches

Accessories

4-way locking device	е	Art. No.
A. C.	A lock-out/tag-out hasp for individually locking the component using up to four cylinder locks.	227232



RCD/MCB residual current circuit breaker with integr. overvoltage prot.

	8530/1-RCBO-STAA101N-300-C16-300-	3 Art. No. 299451
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Cylinder lock		Art. No.
8	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.