

8530/1-RCCB-STAA1N-100-40-500-3 Art. No. 269648



- Modular component for residual current monitoring
- Can be used for pulsating direct currents and alternating currents
- Fault protection, protection of persons and protection against electrical fires caused by residual currents to earth

MY R. STAHL 8530B



The R. STAHL Series 8530 residual current circuit breaker is a component for residual current monitoring and switches off systems in the event of residual currents – for reliable protection of persons, even in hazardous areas. It is suitable for pulsating direct currents and alternating currents and is designed for rated operational currents of 16, 25, 40, or 63 A and rated residual currents of 10, 30, 100, 300 and 500 mA. 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

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 explosion protection	Ex db eb IIC Gb
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), China (CCC)

Electrical Data

AC rated operational voltage	230 V
Frequency	50/60 Hz
Rated operational current	40 A
Rated breaking capacity max	1 kA
Rated short-circuit current	10 kA
Electrical service life	10 ⁴
Mechanical service life	2 x 10 ⁴
Rated residual current	0.1 A
No. of poles	1-pole + N
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 AC	-
2nd auxiliary function voltage max. DC	-
Release type	Type A alternat./pulse current
Back-up fuse	max. 100 A gG

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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

Mechanical Data

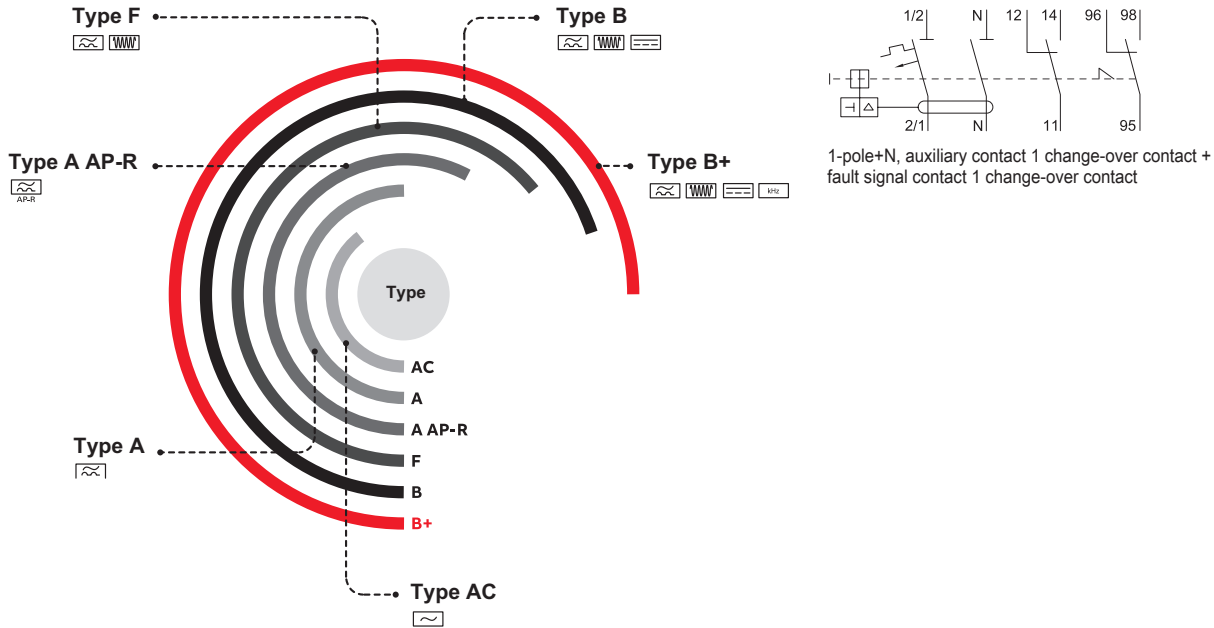
Degree of protection (IP) (IEC 60529)	IP2X
Enclosure material	Thermoplast
Connection cross section min.	1.5 mm ²
Connection cross-section max.	25 mm ²
Connection cross-section AWG min.	16 AWG
Connection cross-section AWG max.	4 AWG
Connection cross-section 2 min.	1.5 mm ²
Connection cross-section 2 max.	10 mm ²
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 ²
Max. aux. cont. conn. cr.-sec.	4 mm ²
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	<p>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.)</p> <p>Refer to the operating instructions for the approved combination possibilities of the connection cross-sections.</p>
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	1.2 kg
Weight	0 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

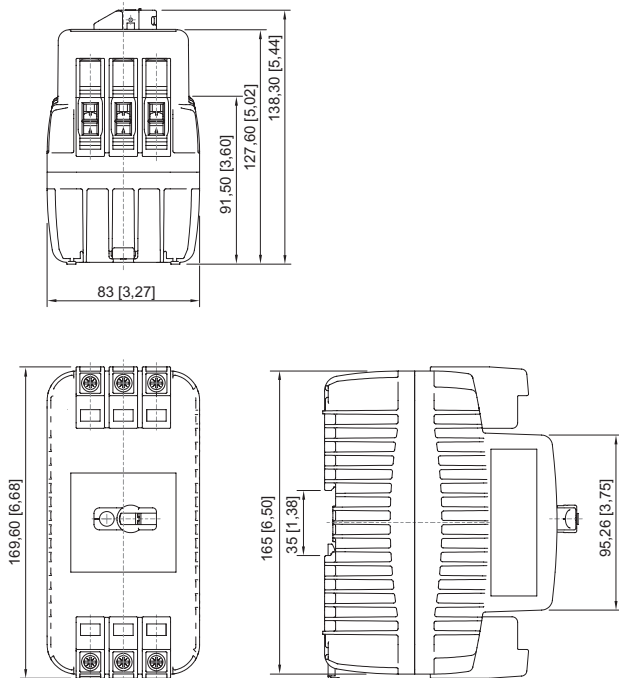
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Technical Drawings – Subject to Alterations



Release type (see type code)

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



8530/1; 3 horizontal pitches

Accessories

Cylinder lock



for closing (bracket Ø 3)

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107115

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Fastening set

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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.